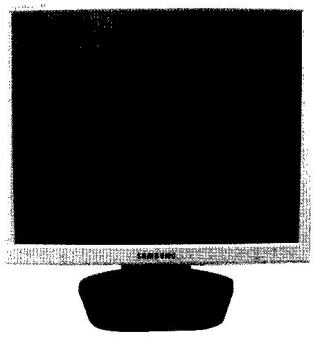
TFT-LCD MONITOR

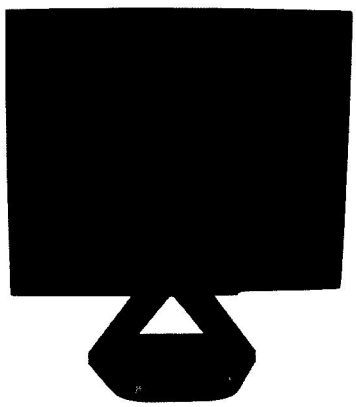
Chassis
MJ15AS*
MJ15BS*
MJ17AS*
MJ17BS*
MJ19AS*
MJ19BS*

SERVICE Manual

TFT-LCD MONITOR



Simple Stand



Pivot Stand

CONTENTS

1. Precautions
2. Product Specifications
3. Disassembly & Reassembly
4. Alignments & Adjustments
5. Troubleshooting
6. Exploded View & Parts List
7. Electrical Parts List
8. Block Diagram
9. Wiring Diagram
10. PCB Layout
11. Schematic Diagrams
12. Panel Description

Copyright

© 2004 by Samsung Electronics Co., Ltd.

All rights reserved.

This manual may not, in whole or in part, be copied, photocopied, reproduced, translated, or converted to any electronic or machine readable form without prior written permission of Samsung Electronics Co., Ltd.

MJ15AS*/MJ15BS*/MJ17AS*/MJ17BS*/MJ19AS*/MJ19BS* Service Manual

First edition February 2004.

Printed in Korea.

Trademarks

Samsung is the registered trademark of Samsung Electronics Co., Ltd.

MJ15AS*/MJ15BS*/MJ17AS*/MJ17BS*/MJ19AS*/MJ19BS* and MacMaster Cable Adapter are trademarks of Samsung Electronics Co., Ltd.

Macintosh, Power Macintosh are trademarks of Apple Computer, Inc.

All other trademarks are the property of their respective owners.

1 Precautions

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock.

1-1 Safety Precautions

1-1-1 Warnings

1. For continued safety, do not attempt to modify the circuit board.
2. Disconnect the AC power and DC power jack before servicing.

1-1-2 Servicing the LCD Monitor

1. When servicing the LCD Monitor, Disconnect the AC line cord from the AC outlet.
2. It is essential that service technicians have an accurate voltage meter available at all times. Check the calibration of this meter periodically.

1-1-3 Fire and Shock Hazard

Before returning the monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check (Figure 1-1):

   WARNING:

   Do not use an isolation transformer during this test.

   Use a leakage current tester or a metering system that complies with American National Standards Institute (*ANSI C101.1, Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

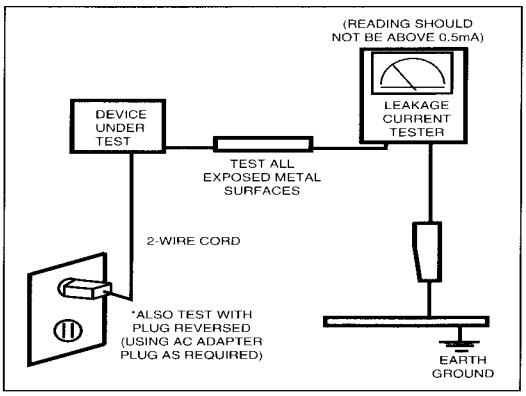

(READING SHOULD NOT BE ABOVE 0.5mA)
LEAKAGE CURRENT TESTER
DEVICE UNDER TEST
TEST ALL EXPOSED METAL SURFACES
2-WIRE CORD
*ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

Figure 1-1. Leakage Current Test Circuit

4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

1-1-4 Product Safety Notices

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by ⚠ on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

1-2 Servicing Precautions

WARNING: **An electrolytic capacitor installed with the wrong polarity might explode.**

Caution: Before servicing units covered by this service manual, read and follow the Safety Precautions section of this manual.

Note: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.

1-2-1 General Servicing Precautions

1. Always unplug the unit's AC power cord from the AC power source and disconnect the DC Power Jack before attempting to:
   (a) remove or reinstall any component or assembly, (b) disconnect PCB plugs or connectors, (c) connect a test component in parallel with an electrolytic capacitor.
2. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
3. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
4. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
5. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to the blades of the AC plug.

   The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
6. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

1-3 Electrostatically Sensitive Devices (ESD) Precautions

Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components are commonly called Electrostatically Sensitive Devices (ESD). Examples of typical ESD are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution: Be sure no power is applied to the chassis or circuit and observe all other safety precautions.
8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.

2 Product Specifications

2-1 MJ15AS*/MJ15BS*/MJ17AS*/MJ17BS* Specifications

Item	Description	
	MJ15AS*/MJ15BS*	MJ17AS*/MJ17BS*
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally black transmissive, 15-Inch viewable, 0.297 (H) x 0.297 (V) mm pixel pitch	TFT-LCD panel, RGB vertical stripe, normally black transmissive, 17-Inch viewable, 0.264 (H) x 0.264 (V) mm pixel pitch
Scanning Frequency	Horizontal : 31 kHz ~ 61 kHz (Automatic) Vertical : 50 Hz ~ 75 Hz	Horizontal : 30 kHz ~ 81 kHz (Automatic) Vertical : 56 Hz ~ 75 Hz
Display Colors	16.2 Million colors	
Maximum Resolution	Horizontal : 1024 Pixels Vertical : 768 Pixels	Horizontal : 1280 Pixels Vertical : 1024 Pixels
Input Video Signal	Analog, 0.714 Vp-p ± 5% positive at 75 Ω, internally terminated	
Input Sync Signal	Type : Separate H/V sync, Composite H/V Level : TTL level (V high ≥ 2.0 V, V low ≤ 0.8 V), Sync-on-Green (≤ –0.25 V)	
Maximum Pixel Clock rate	80 MHz	135 MHz
Active Display Horizontal/Vertical	304.1 mm / 228.1 mm	338 ± 3 mm / 270 ± 3 mm
AC power voltage & Frequency	AC 90 ~ 264 Volts, 60/50 Hz ± 12V / 3A	AC 90 ~ 264 Volts, 60/50 Hz ± 3 Hz
Power Consumption	25W (normal)	34W (normal)
Dimensions	Simple Stand / Pivot Stand	Simple Stand
Set (W x D x H)	13.3 x 2.2 x 10.7 Inches (338.0 x 56.3 x 272.0 mm) State of stand disassembled 13.3 x 6.9 x 13.3 Inches (338.0 x 175.0 x 337.0 mm) State of stand installed	14.6 x 2.4 x 12.4 Inches (370.0 x 60.3 x 316.0 mm) State of stand disassembled 14.6 x 6.9 x 15 Inches (370.0 x 175.0 x 381.0 mm) State of stand installed
Package	15.3 x 4.9 x 15.1 Inches (388 x 125 x 383 mm)	17.9 x 5.6 x 17.2 Inches (455 x 141 x 437 mm)
Weight (Set/Package)	3.1 kg (6.8 lbs) / 4.25 kg (9.4 lbs)	4.5 kg (9.9 lbs) / 6.15 kg (13.6 lbs)
Dimensions	-	Pivot Stand
Set (W x D x H)		14.6 x 2.4 x 12.4 Inches (370.0 x 60.3 x 316.0 mm) State of stand disassembled 14.6 x 7.5 x 16.0 Inches (370.0 x 190.9 x 406.8 mm) State of stand installed
Package		20.0 x 10.1 x 16.0 Inches (508 x 256 x 407 mm)
Weight (Set/Package)	-	6.25 kg (13.8 lbs) / 7.95 kg (17.5 lbs)
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -13°F ~ 113°F (-25°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
• Designs and specifications are subject to change without prior notice.		

2-2 MJ19AS*/MJ19BS* Specifications

Item	Description	
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally black transmissive, 19-Inch viewable, 0.297 (H) x 0.297 (V) mm pixel pitch	
Scanning Frequency	Horizontal : 31 kHz ~ 61 kHz (Automatic) Vertical : 55 Hz ~ 76 Hz	
Display Colors	16.2 Million colors	
Maximum Resolution	Horizontal : 1280 Pixels Vertical : 1024 Pixels	
Input Video Signal	Analog, 0.7 Vp-p ± 5% positive at 75 Ω, internally terminated	
Input Sync Signal	Type : Separate H/V sync, Composite H/V Level : TTL level (V high ≥ 2.0 V, V low ≤ 0.8 V), Sync-on-Green (≤ –0.25 V)	
Maximum Pixel Clock rate	135 MHz	
Active Display Horizontal/Vertical	376.32 mm ± 3 mm / 301.056 mm ± 3 mm	
AC power voltage & Frequency	AC 90 ~ 264 Volts, 60/50 Hz ± 3Hz	
Power Consumption	38W (normal)	
Dimensions	Simple Stand	Pivot Stand
Set (W x D x H)	16.4 x 2.4 x 13.8 Inches (416.6 x 60.2 x 349.4 mm) State of stand disassembled 16.4 x 7.7 x 16.7 Inches (416.6 x 195.7 x 424.6 mm) State of stand installed	16.4 x 2.4 x 13.8 Inches (416.6 x 60.2 x 349.4 mm) State of stand disassembled 16.4 x 7.5 x 16.7 Inches (416.6 x 190.9 x 423.4 mm) State of stand installed
Package	20.0 x 5.9 x 19.4 Inches (509 x 150 x 494 mm)	21.1 x 9.4 x 17.4 Inches (535 x 238 x 443 mm)
Weight (Set/Package)	5.85 kg (12.9 lbs) / 7.8 kg (17.2 lbs)	7.30 kg (16.1 lbs) / 9.1 kg (20.1 lbs)
Environmental Considerations	Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -13°F ~ 113°F (-25°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
• Designs and specifications are subject to change without prior notice.		

2-3 Pin Assignments

Sync Type / Pin No.	15-Pin D-Sub Signal Cable Connector		
	Separate	**Composite**	**Sync-on-green**
1	Red	Red	Red
2	Green	Green	Green + H/V Sync.
3	Blue	Blue	Blue
4	GND	GND	GND
5	DDC Return (GND)	DDC Return (GND)	DDC Return (GND)
6	GND-R	GND-R	GND-R
7	GND-G	GND-G	GND-G
8	GND-B	GND-B	GND-B
9	DDC Power Input (+5V)	DDC Power Input (+5V)	DDC Power Input (+5V)
10	Self Raster	Self Raster	Self Raster
11	GND	GND	GND
12	Bi-Dr Data (SDA)	Bi-Dr Data (SDA)	Bi-Dr Data (SDA)
13	H-Sync.	H/V-Sync.	Not Used
14	V-Sync.	Not Used	Not Used
15	DDC Clock (SCL)	DDC Clock (SCL)	DDC Clock (SCL)

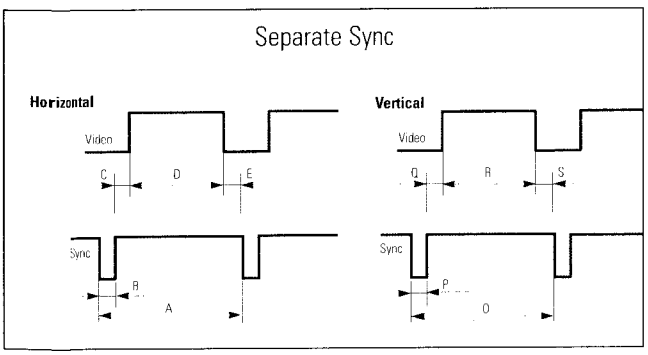
Sync Type / Pin No.	24P DVI-D		
1	Rx2-	13	No Connection
2	Rx2+	14	+5V_M
3	GND	15	Self Raster
4	No Connection	16	+5V_M
5	No Connection	17	Rx0-
6	DDC Clock (SCL)	18	Rx0+
7	DDC Data (SDA)	19	NC
8	NC	20	No Connection
9	Rx1-	21	No Connection
10	Rx1+	22	NC
11	NC	23	RxC+
12	No Connection	24	RxC-

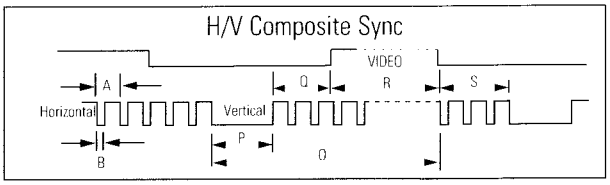
2-4 Timing Chart

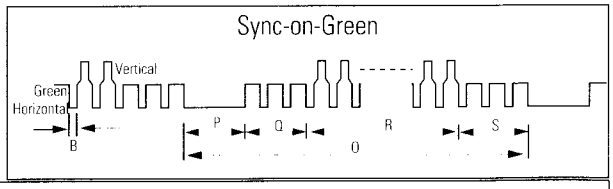
This section of the service manual describes the timing that the computer industry recognizes as standard for computer-generated video signals.

Table 2-1 Timing Chart

Mode / Timing	IBM		VESA (MJ15AS*/MJ15BS*/MJ17AS*/MJ17BS*/MJ19AS*/MJ19BS*)					VESA(MJ17AS*/MJ17BS*/ MJ19AS*/MJ19BS*)	
	VGA2/ 70 Hz 720 x 400	VGA3/ 60 Hz 640 x 480	640/75 Hz 640 x 480	800/60 Hz 800 x 600	800/75 Hz 800 x 600	1024/60 Hz 1024 x 768	1024/75 Hz 1024 x 768	1280/60 Hz 1280 x 1024	1280/75 Hz 1280 x 1024
fH (kHz)	31.469	31.469	37.500	37.879	46.875	48.363	60.023	63.981	79.975
A µsec	31.777	31.778	26.667	26.400	21.333	20.677	16.660	11.852	12.504
B µsec	3.813	3.813	2.032	3.200	1.616	2.092	1.219	1.037	1.067
C µsec	1.589	1.589	3.810	2.200	3.232	2.462	2.235	2.296	1.837
D µsec	26.058	26.058	20.317	20.000	16.162	15.754	13.003	9.259	9.481
E µsec	0.318	0.318	0.508	0.000	0.323	0.369	0.203	0.000	0.119
fV (Hz)	70.087	59.940	75.000	60.317	75.000	60.004	75.029	60.020	75.025
O msec	14.268	16.683	13.333	16.579	13.333	16.666	13.328	16.005	13.329
P msec	0.064	0.064	0.080	0.106	0.064	0.124	0.050	0.047	0.038
Q msec	0.858	0.794	0.427	0.607	0.448	0.600	0.466	0.594	0.475
R msec	13.155	15.761	12.800	15.840	12.800	15.880	12.795	15.630	12.804
S msec	0.191	0.064	0.027	0.0261	0.021	0.062	0.017	0.016	0.013
Clock Freq. (MHz)	28.322	26.175	31.500	40.000	49.500	75.000	78.750	108.000	135.000
Polarity H.Sync	Negative	Negative	Negative	Positive	Positive	Negative	Positive	Positive	Positive
V.Sync	Positive	Negative	Negative	Positive	Positive	Negative	Positive	Positive	Positive
Remark	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate







A : Line time total	B : Horizontal sync width	O : Frame time total	P : Vertical sync width
C : Back porch	D : Active time	Q : Back porch	R : Active time
E : Front porch		S : Front porch	

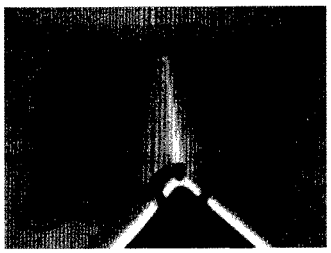
3 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the MJ15AS*/MJ17AS*/MJ19AS*/MJ15BS*/MJ17BS*/MJ19BS* TFT-LCD monitors.

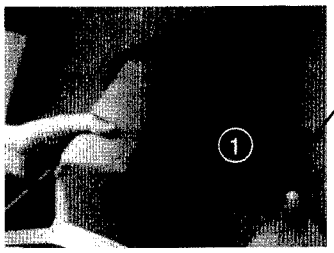
WARNING: This monitor contains electrostatically sensitive devices. Use caution when handling these components.

3-1 Disassembly

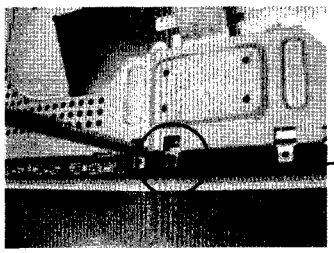
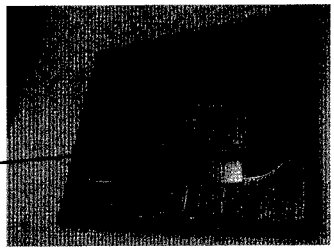
Cautions: 1. Disconnect the monitor from the power source before disassembly.



1. After placing monitor on the cushioned table, remove two screws on the left and right of the bottom.

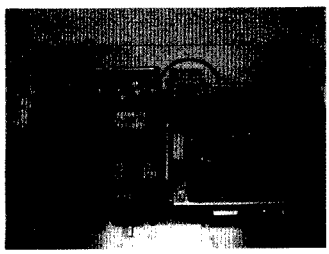


2. Disconnect back cover from monitor after grabbing the right edge of the set ((1)) and lifting the stand((2)).

3. Remove 2 screws from the shield.

4. Disconnect function cable from the cover front and lift up the panel. Remove 4 screws from the panel shield. (Right / Left)



5. Lift up the panel shield and carefully remove the silicon glue on the cables with a nipper. ⚠**Caution : Lamp wire may be easily damaged. Please use caution when removing the silicon.**

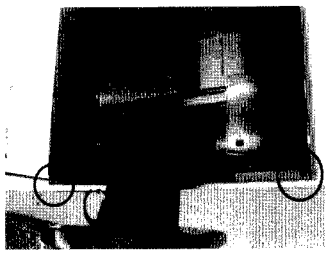
3 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the MJ15AS*/MJ17AS*/MJ19AS*/MJ15BS*/MJ17BS*/MJ19BS* TFT-LCD monitors.

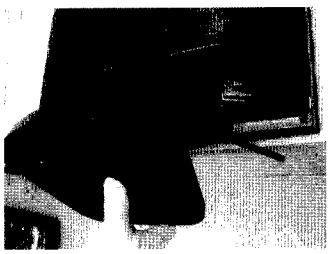
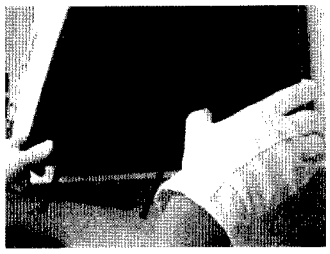
WARNING: This monitor contains electrostatically sensitive devices. Use caution when handling these components.

3-1 Disassembly

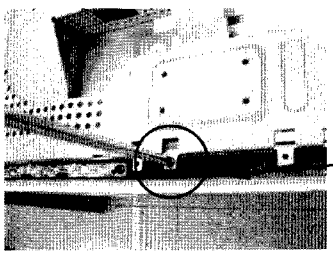
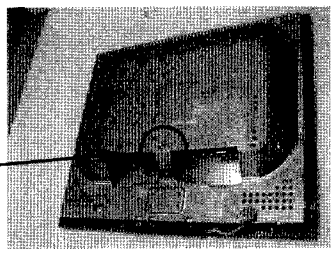
Cautions: 1. Disconnect the monitor from the power source before disassembly.
2. Follow these directions carefully; never use any metal instrument except provided jig to separate the cabinet.
3. R/Cover opening jig : BH81-00001A



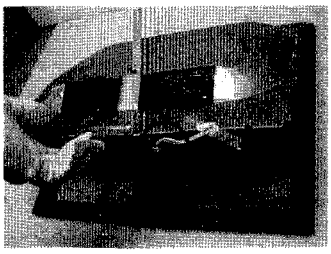
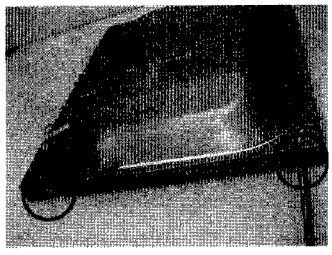
1. Place monitor face down on cushioned table. Remove 4 screws from grip on the stand and remove the stand. Remove 2 screws from the rear cover.

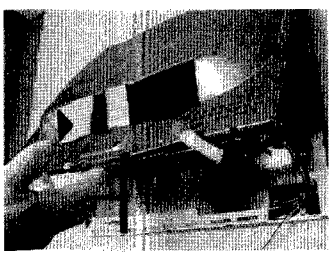
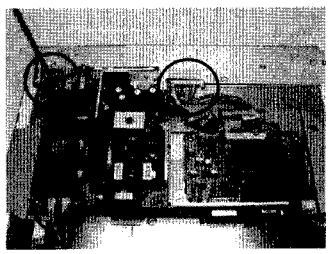
2. Insert the opening stand into the grooves at a hole and press until it clicks and lift the rear cover.

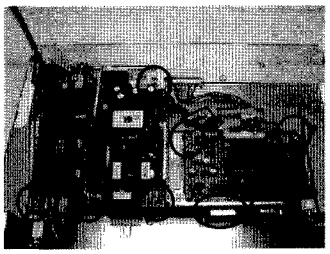
3. Remove 2 screws from the shield.

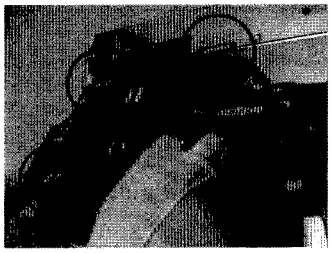



4. Disconnect function cable from the cover front and lift up the panel. Remove 4 screws from the panel shield. (Right / Left)

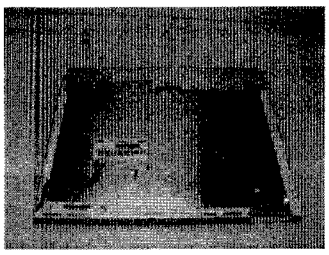



5. Lift up the panel shield and carefully remove the silicon glue on the cables with a nipper. ⚠**Caution : Lamp wire may be easily damaged. Please use caution when removing the silicon.**





6. Remove 7 screws, 4 hexa screws from the boards and lift up the boards.
   ⚠ Caution : When repairing panel only, disconnect just LVDS cable, Panel-Lamp / Wire marked in circle in the picture without removing the screws on board in order to lift the board up.



7. This picture is panel.

3-2 Reassembly

Reassembly procedures are in the reverse order of disassembly procedures.

4 Alignments and Adjustments

This section of the service manual explains how to use the RS232 JIG.
This function is needed for AD board change and program memory (IC110) change.

4-1 Required Equipment

The following equipment is necessary for adjusting the monitor:

- Computer with Windows 95, Windows 98, or Windows NT.
- MTI-2031 DDC MANAGER JIG

4-2 Automatic Color Adjustment

To input video, use 16 gray or any pattern using black and white.

1. Select english for OSD language.
2. Press the "⏎(Enter/Source)" key for 5 seconds.

4-3 DDC EDID Data Input

1. Input DDC EDID data when replacing AD PCB.
2. Receive/Download the proper DDC file for the model from HQ quality control department. Install the below jig (Figure 1) and enter the data.

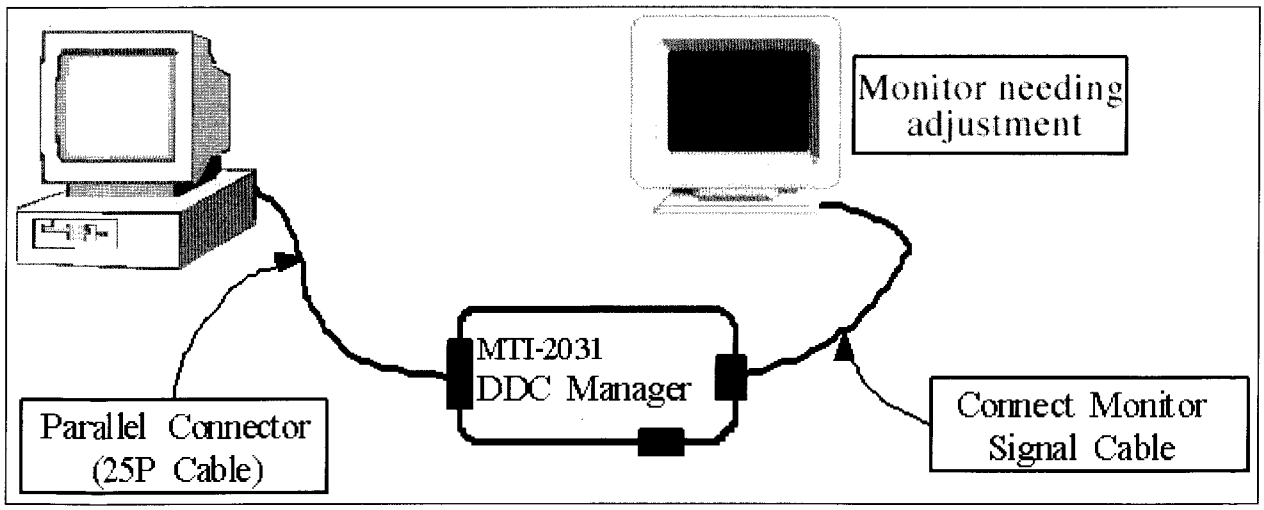


Figure 1.

4-4 OSD Adjustment When Replacing Panel

1. Adjust brightness and contrast to 0. Then, press the ⏎(Enter/Source) key for 5 second. Service function OSD will appear on screen.
2. Press the + key to place the cursor on the panel. Press the menu key for 5 seconds.

4-5 OSD Adjustment When Replacing Lamp Only

1. Adjust brightness and contrast to 0. Then, press the exit key for 5 seconds. Service function OSD will appear on the screen.
2. Press the + key. Select upper lamp and press the menu key for 5 seconds. Then, select lower lamp and press the menu key for 5 seconds.

* ***Note :*** *Please be sure to read the following instructions for details on service function.*

4-6 Service Function Spec.

4-6-1 How to Display Service Function OSD

1. The value for brightness and contrast should be changed to zero.
2. Within 5 seconds, press the ⏎(Enter/Source) key.
3. Service function OSD will be displayed.

* If you want to disable the service function OSD, you will have to power off.

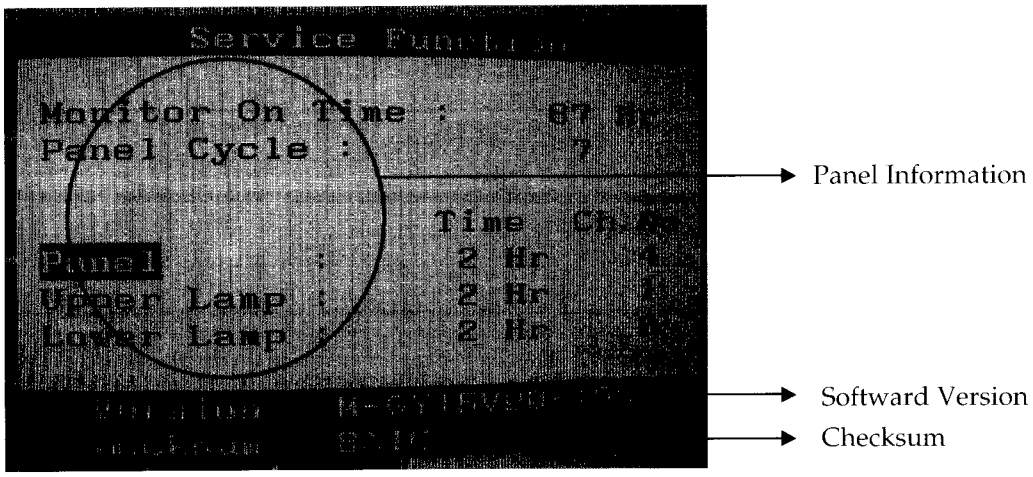


Figure 2. The example of service function OSD

The service function OSD is based on a grid of 29 columns x 12 rows.
The service function OSD consists of panel information, software version and MICOM checksum.

4-6-2 How to Control Service Function OSD

1. With the panel selected on OSD, whenever you press the right key, the base color will change to blue from "Panel" to "Upper Lamp", "Lower Lamp".

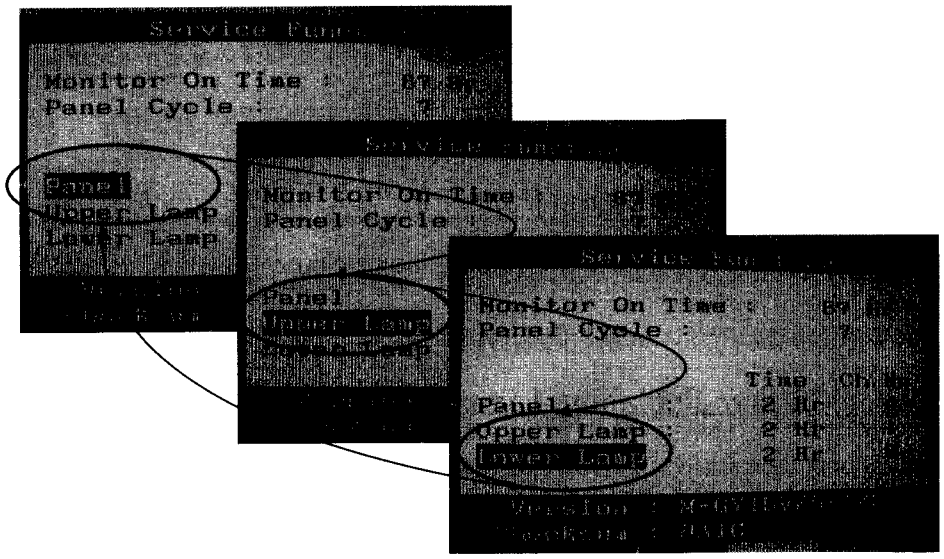


Figure 3.

4-6-3 How to Control Service Function OSD

•After change the panel or lamp, you must reset service function OSD.

•The case of panel change

After changeing the panel, press the menu key within 5 seconds,.
Then, panel Ch. No increases one step and the panel time information is reset to zero.
Simultaneously, other information is reset to zero (Upper/Lower lamp, Panel cycle).

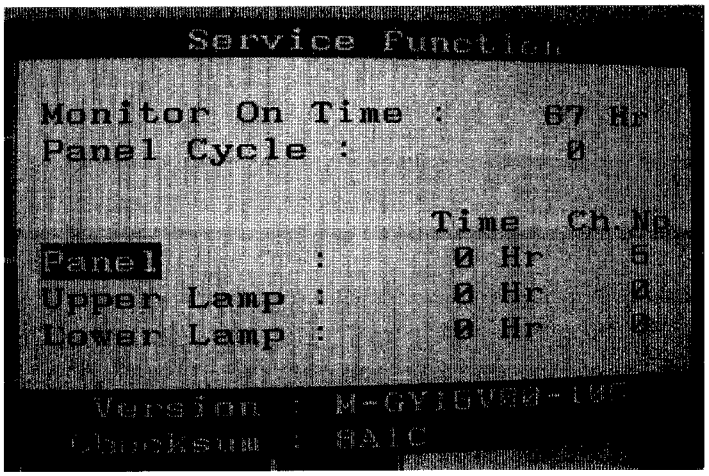

Service Function
Monitor On Time : 67 Hr
Panel Cycle : 0
Time Ch.No
Panel : 0 Hr 5
Upper Lamp : 0 Hr 0
Lower Lamp : 0 Hr 0
Version : M-GY15V00-105
Checksum : 8A1C

Figure 4.

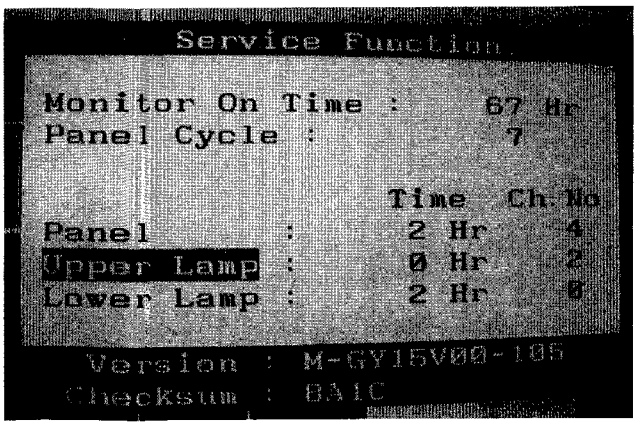
4-6-4 How to Control Service Function OSD

•In the case of Upper Lamp or Lower Lamp change

After changeing the Upper Lamp or Lower Lamp,

1. Select the Upper Lamp or Lower Lamp
2. Press the Menu key within an 5 seconds.

Then, Ch. No and time will be reset to zero (selected item only).


Service Function
Monitor On Time : 67 Hr
Panel Cycle : 7
Time Ch.No
Panel : 2 Hr 4
Upper Lamp : 0 Hr 2
Lower Lamp : 2 Hr 0
Version : M-GY15V00-105
Checksum : 8A1C

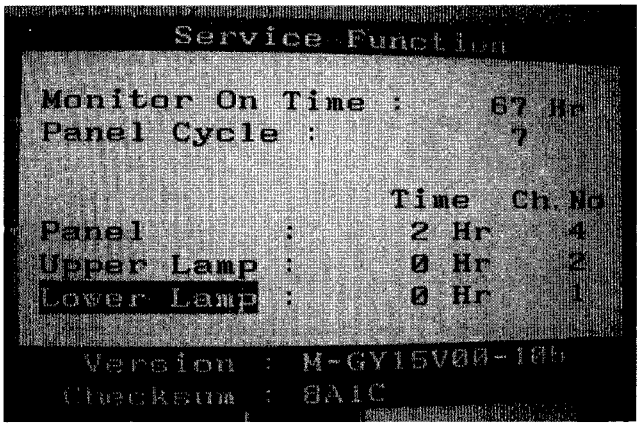

Service Function
Monitor On Time : 67 Hr
Panel Cycle : 7
Time Ch.No
Panel : 2 Hr 4
Upper Lamp : 0 Hr 2
Lower Lamp : 0 Hr 1
Version : M-GY15V00-105
Checksum : 8A1C

Figure 5, 6.

Memo

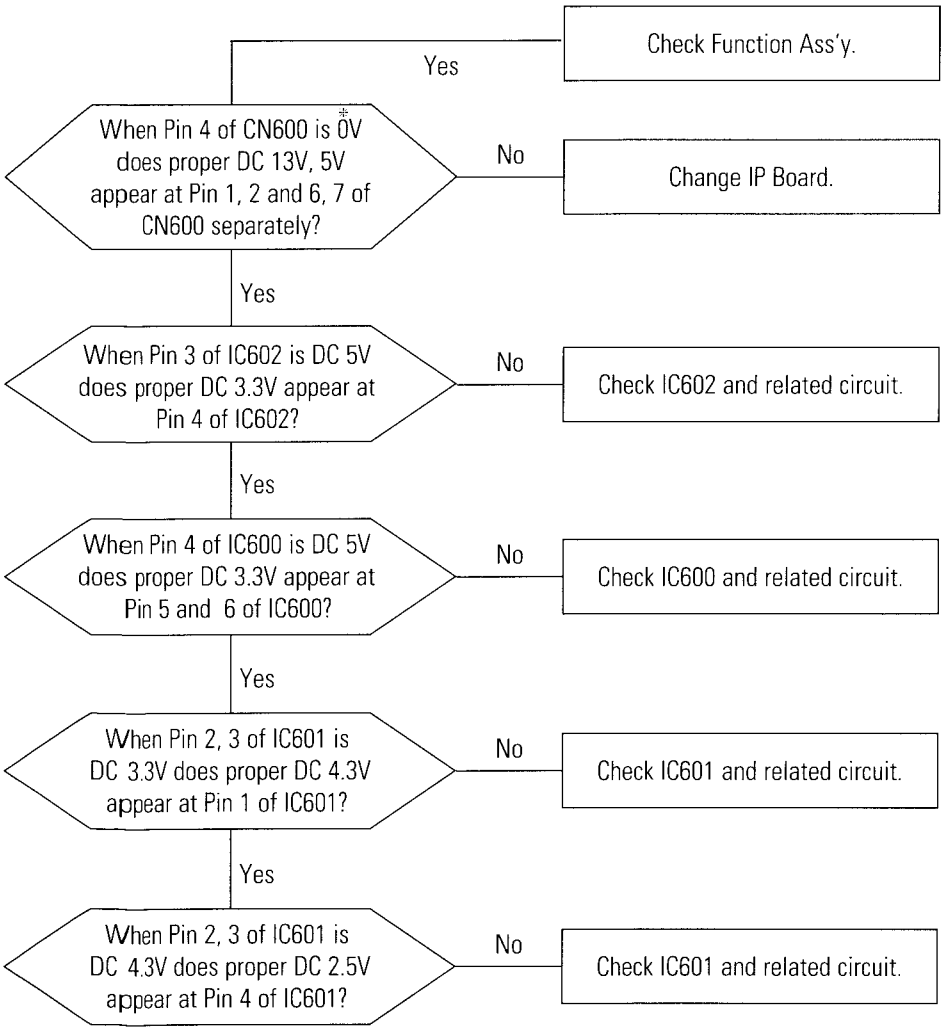
5 Troubleshooting

Notes: 1. Before troubleshooting, setup the PC's display as below.
- Resolution: 1024 x 768
- H-frequency: 61 kHz
- V-frequency: 75 Hz

2. If no picture appears, make sure the power cord is correctly connected.
3. Check the following circuits.
- No raster appears: Function PBA, Main PBA, I/D PBA
- 5V develop but no screen: Main PBA
- 5V does not develop: I/D PBA

4. If you push and hold the "↵(Enter, Source)" button for more than 5 seconds, the monitor automatically returns to the factory preset.

5-1-1 No Power (MJ15A*/MJ15B*)


When Pin 4 of CN600 is 0V* does proper DC 13V, 5V appear at Pin 1, 2 and 6, 7 of CN600 separately?
Yes
No
Check Function Ass'y.
Change IP Board.
When Pin 3 of IC602 is DC 5V does proper DC 3.3V appear at Pin 4 of IC602?
Yes
No
Check IC602 and related circuit.
When Pin 4 of IC600 is DC 5V does proper DC 3.3V appear at Pin 5 and 6 of IC600?
Yes
No
Check IC600 and related circuit.
When Pin 2, 3 of IC601 is DC 3.3V does proper DC 4.3V appear at Pin 1 of IC601?
Yes
No
Check IC601 and related circuit.
When Pin 2, 3 of IC601 is DC 4.3V does proper DC 2.5V appear at Pin 4 of IC601?
Yes
No
Check IC601 and related circuit.

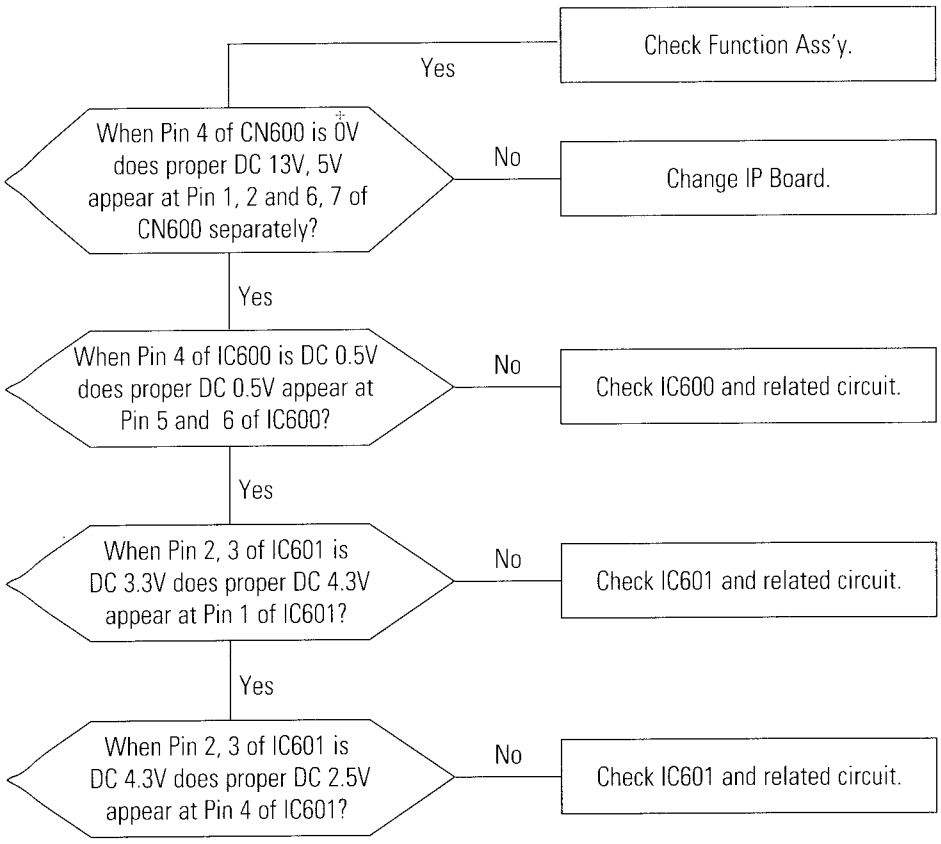
* 0V means power on state.
When the monitor work well except DPMS and power switch off, 0V should be applied to number 4 of CN600.

Notes: 1. Before troubleshooting, setup the PC's display as below.
- Resolution: 1280 x 1024
- H-frequency: 64 kHz
- V-frequency: 60 Hz

2. If no picture appears, make sure the power cord is correctly connected.
3. Check the following circuits.
- No raster appears: Function PBA, Main PBA, I/P PBA
- 5V develop but no screen: Main PBA
- 5V does not develop: I/P PBA

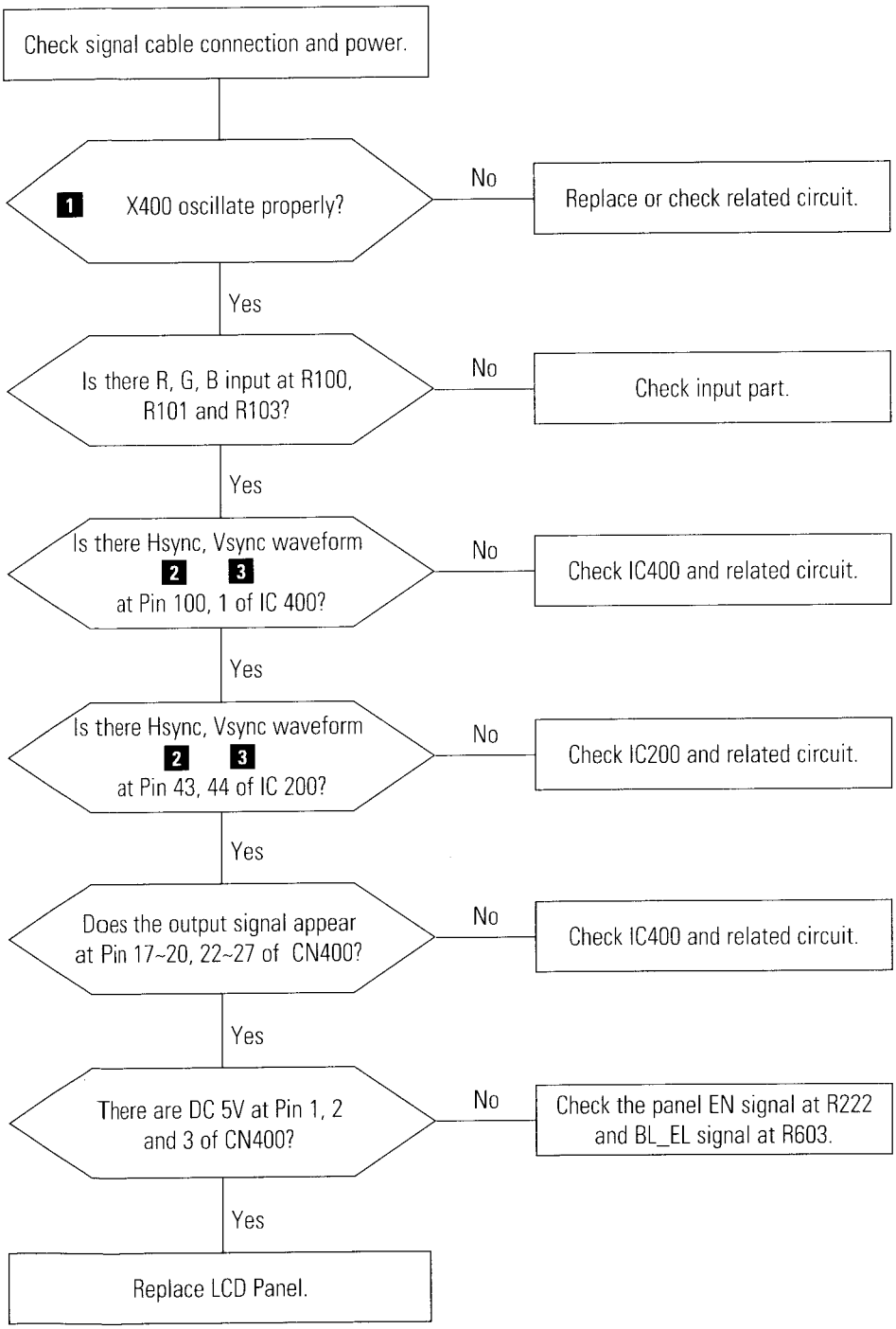
4. If you push and hold the "↵(Enter/Source)" button for more than 5 seconds, the monitor automatically returns to the factory preset.

5-1-2 No Power (MJ17A*/MJ19A*/MJ17B*/MJ19B*)

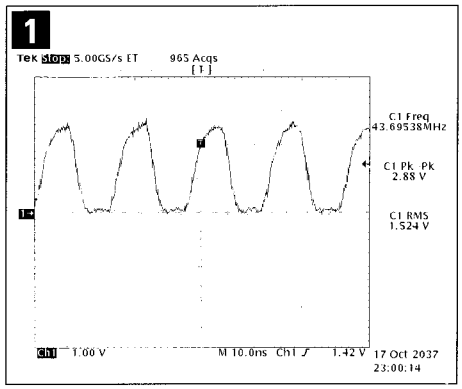

When Pin 4 of CN600 is 0V does proper DC 13V, 5V appear at Pin 1, 2 and 6, 7 of CN600 separately?
Yes
Check Function Ass'y.
No
Change IP Board.
When Pin 4 of IC600 is DC 0.5V does proper DC 0.5V appear at Pin 5 and 6 of IC600?
Yes
No
Check IC600 and related circuit.
When Pin 2, 3 of IC601 is DC 3.3V does proper DC 4.3V appear at Pin 1 of IC601?
Yes
No
Check IC601 and related circuit.
When Pin 2, 3 of IC601 is DC 4.3V does proper DC 2.5V appear at Pin 4 of IC601?
Yes
No
Check IC601 and related circuit.

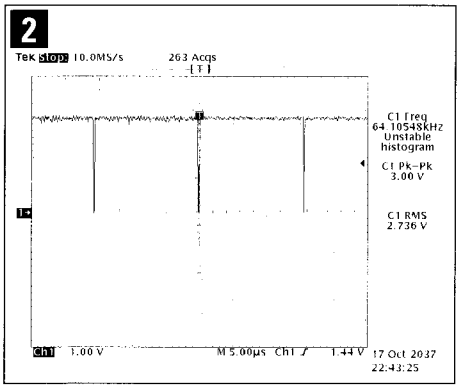
* 0V means power on state.
When the monitor work well except DPMS and power switch off, 0V should be applied to number 4 of CN600.

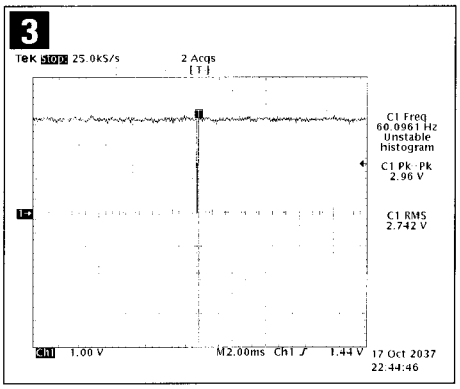
5-2-1 No Video (ANALOG)


Check signal cable connection and power.
1 X400 oscillate properly?
No
Replace or check related circuit.
Yes
Is there R, G, B input at R100, R101 and R103?
No
Check input part.
Yes
Is there Hsync, Vsync waveform 2 3 at Pin 100, 1 of IC 400?
No
Check IC400 and related circuit.
Yes
Is there Hsync, Vsync waveform 2 3 at Pin 43, 44 of IC 200?
No
Check IC200 and related circuit.
Yes
Does the output signal appear at Pin 17~20, 22~27 of CN400?
No
Check IC400 and related circuit.
Yes
There are DC 5V at Pin 1, 2 and 3 of CN400?
No
Check the panel EN signal at R222 and BL_EL signal at R603.
Yes
Replace LCD Panel.

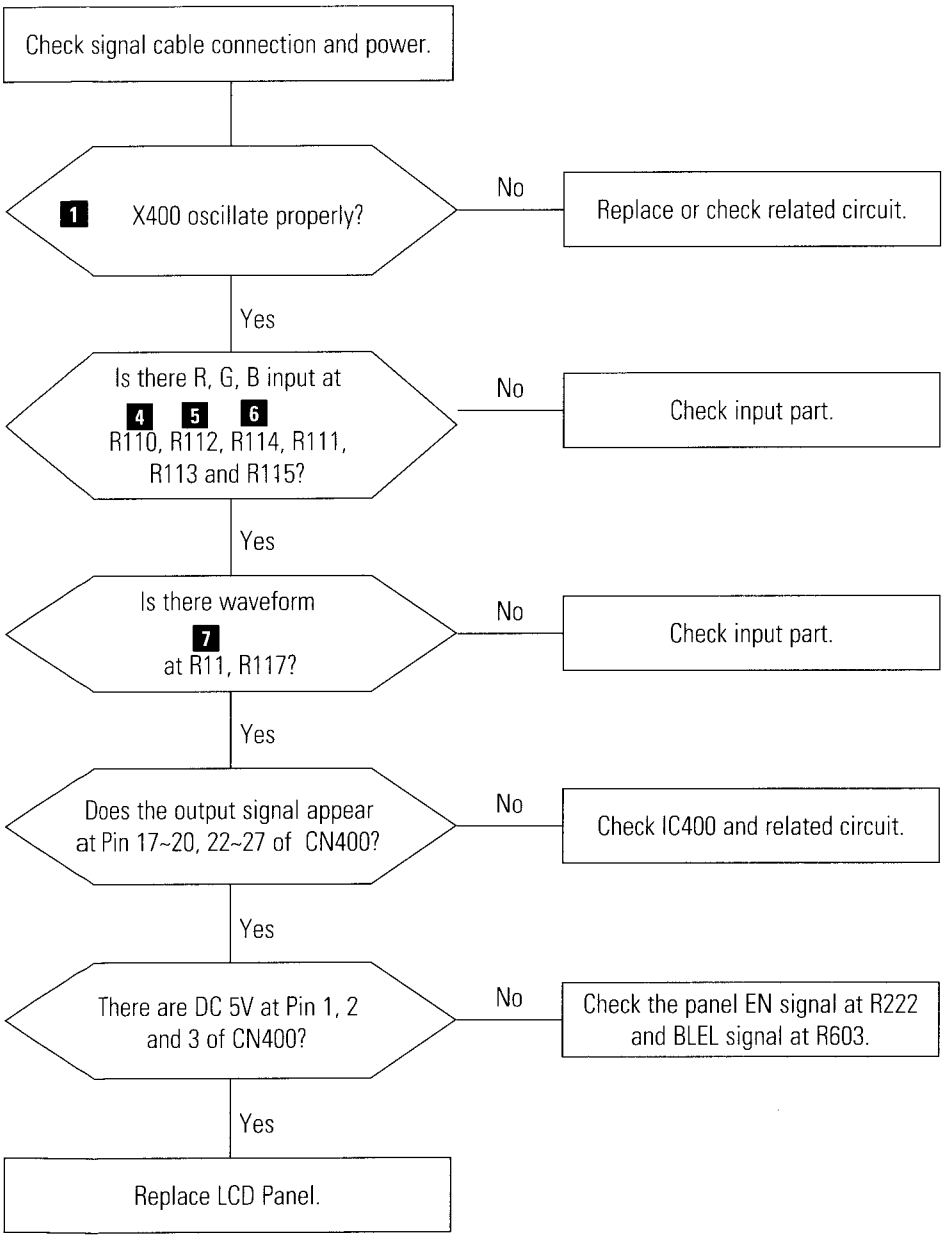
WAVEFORMS


1
Tek Stop: 5.00GS/s ET 965 Acqs
C1 Freq
43.69538MHz
C1 Pk-Pk
2.88 V
C1 RMS
1.524 V
Ch1 1.00 V M 10.0ns Ch1 1.42 V 17 Oct 2037
23:00:14


2
Tek Stop: 10.0MS/s 263 Acqs
C1 Freq
64.10548kHz
Unstable
histogram
C1 Pk-Pk
3.00 V
C1 RMS
2.736 V
Ch1 1.00 V M 5.00µs Ch1 1.44 V 17 Oct 2037
22:43:25

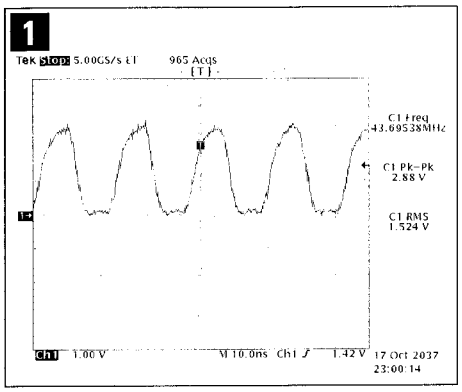

3
Tek Stop: 25.0kS/s 2 Acqs
C1 Freq
60.0961 Hz
Unstable
histogram
C1 Pk-Pk
2.96 V
C1 RMS
2.742 V
Ch1 1.00 V M2.00ms Ch1 1.44 V 17 Oct 2037
22:44:46

5-2-2 No Video (DIGITAL)

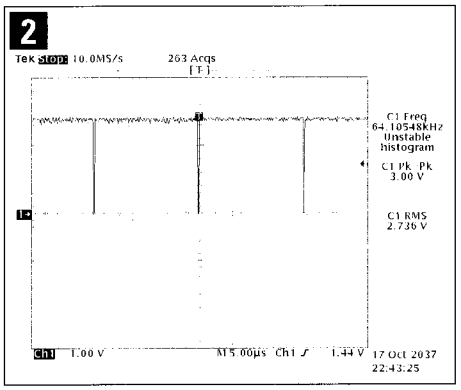


WAVEFORMS

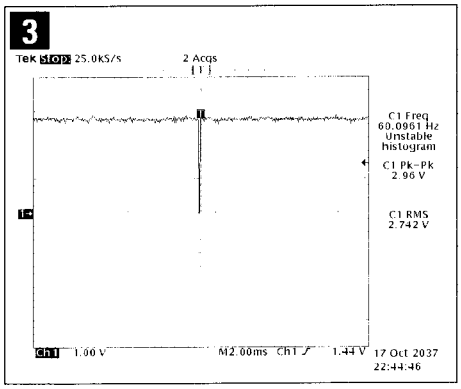
1



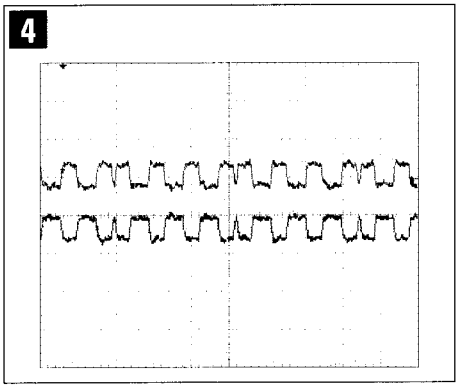
2



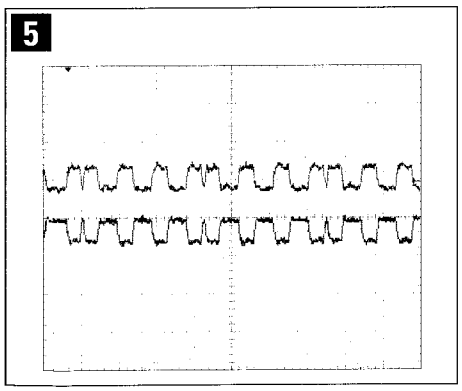
3



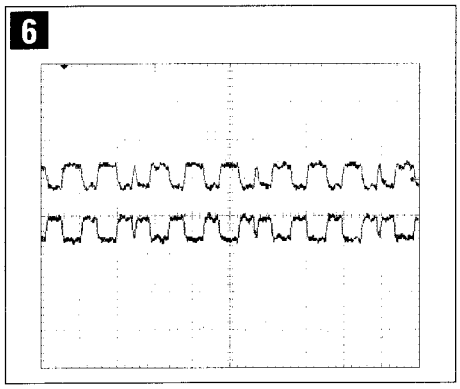
4



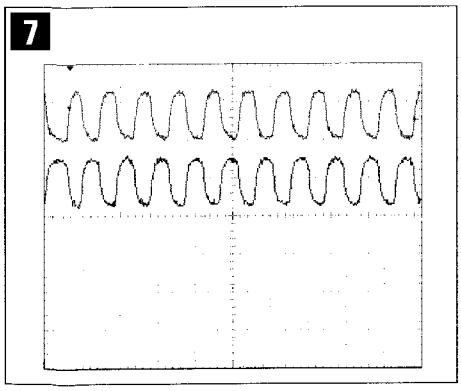
5



6



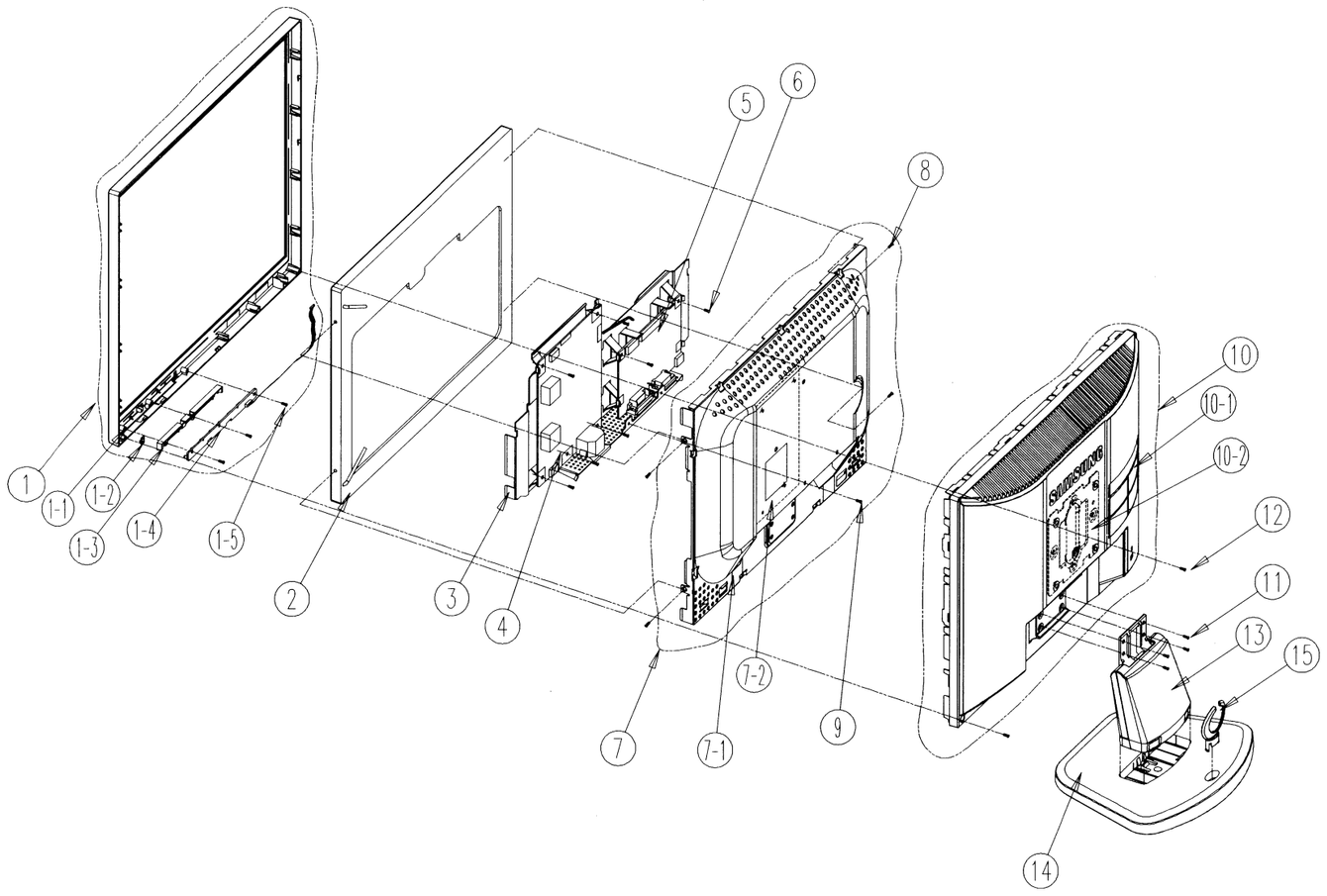
7



6 Exploded View and Parts List

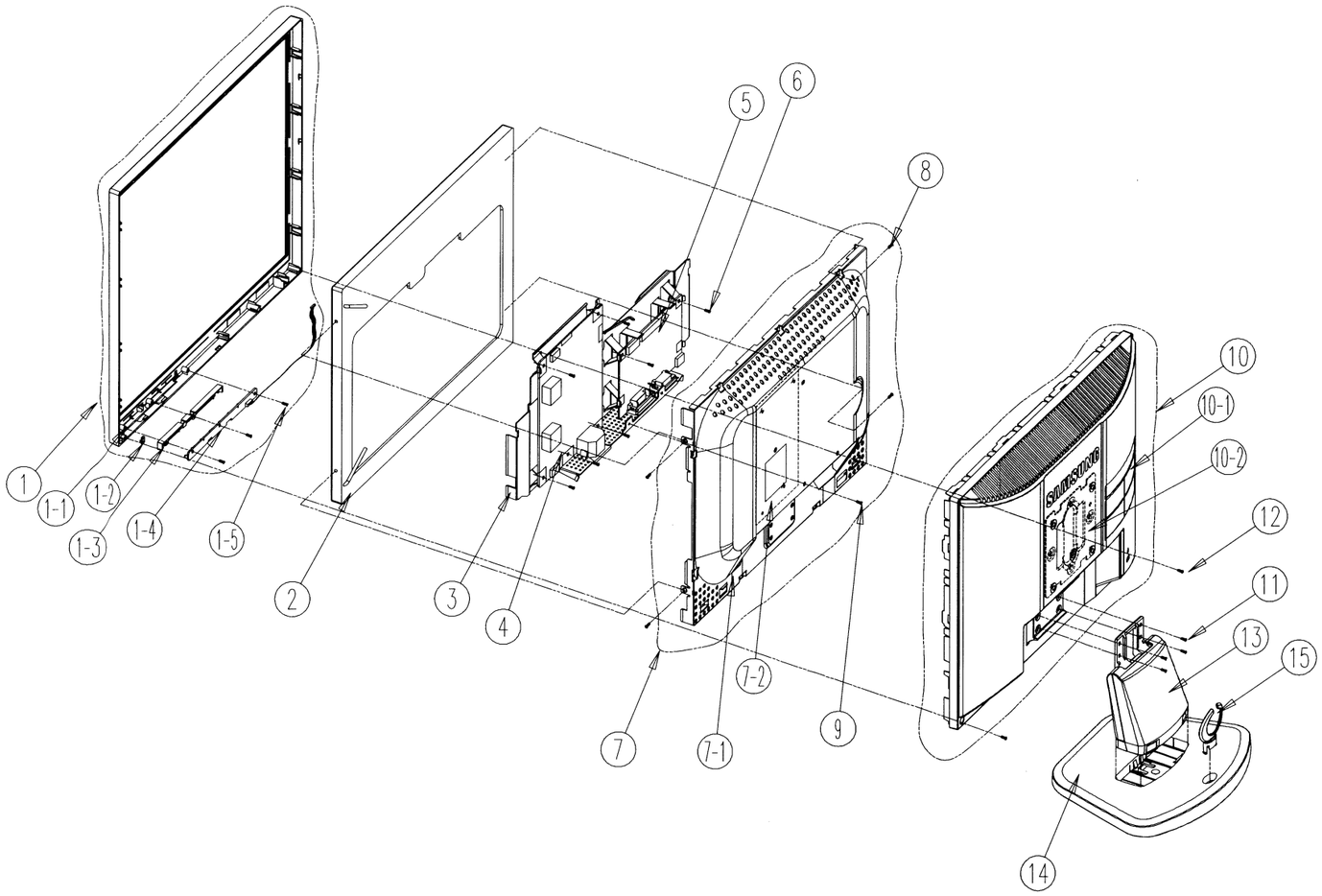
❉ You can search for updated part codes through ITSELF web site.
URL : http://itself. sec. samsung.co.kr

6-1 MJ15AS*



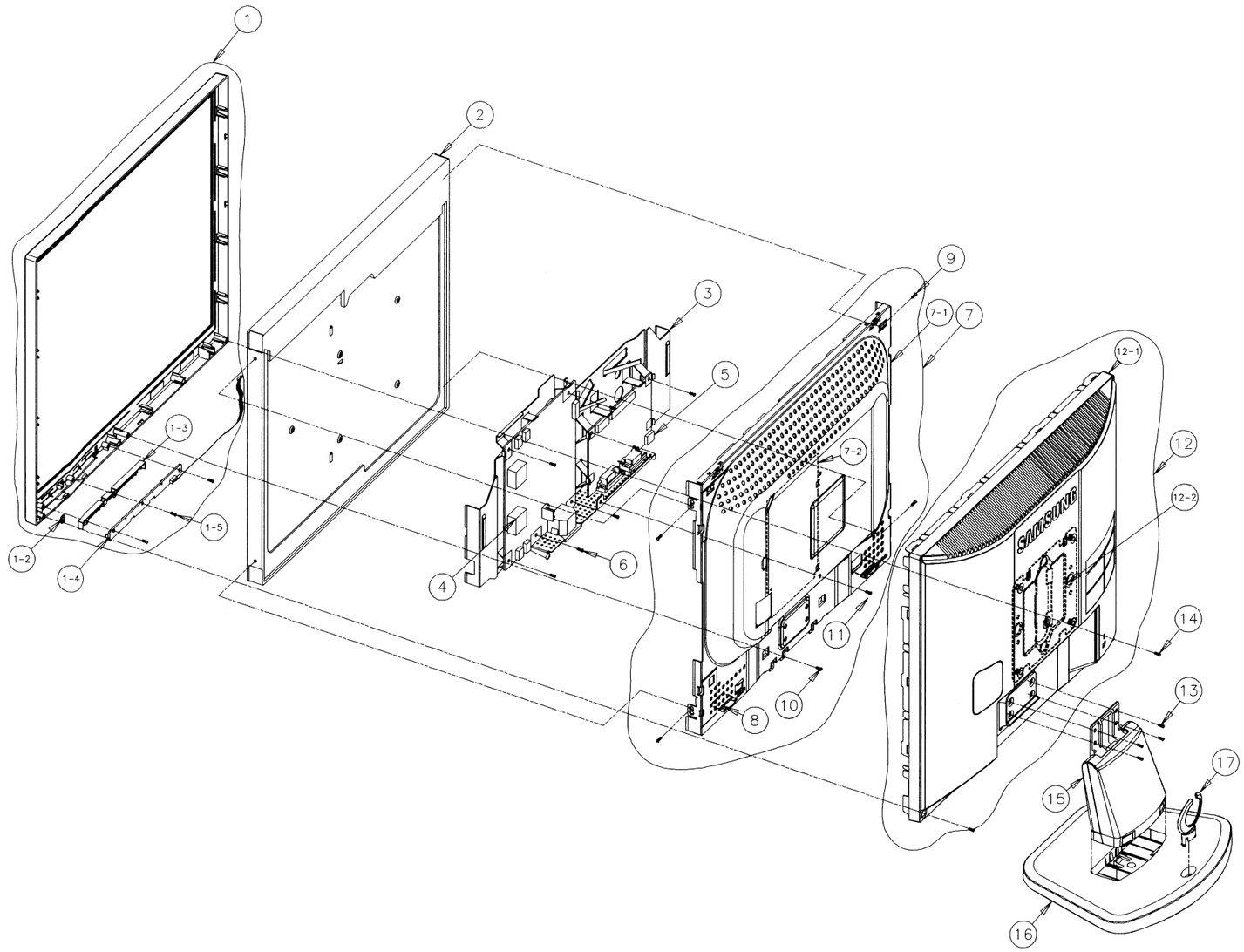
No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01052B	ABS HB,GR70,SILVER	1	SA
1-1	COVER-FRONT	BN63-01206A	ABS HB GR70 SILVER	1	SNA
1-2	LENS-LED	BN67-00120A	ACRYL,CLEAR	1	SNA
1-3	KNOB-FUNCTION	BN64-00257A	ABS+PC,GR70 SILVER	1	SNA
1-4	FUNCTION-PCB	BN96-01111A	-	1	SNA
1-5	SCREW TAPTITE	6003-000282	BH,+,B,M3,L8,ZPC(BLK),SWRC	3	SA
2	PANEL	BN07-00164B	LTM150X0-L01	1	SA
3	BRKT-PCB	BN61-01068A	SECC T1.0, ANALOG TYPE	1	SNA
4	IP-BOARD	BN44-00107B	-	1	SA
5	MAIN-BOARD	BN94-00527D	-	1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	7	SA
7	ASSY,SHIELD-COVER	BN96-01058A	-	1	SNA
7-1	SHIELD-COVER	BN63-01192A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01213A	PC SHEET V2,T0.35	1	SNA
8	SCREW-MACHINE	6001-000125	BH,+,M3,L4,ZPC(YEL),SM20C,	4	SA
9	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
10	ASSY,COVER-REAR	BN96-01053B	ABS HB,BK07	1	SA
10-1	COVER-REAR	BN63-01207B	ABS HB,BK07	1	SNA
10-2	BRKT-VESA	BN61-00379A	GOYA 153S,SECC,T2.0	1	SNA
11	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
12	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
13	ASSY,STAND	BN96-01063A	ABS HB,BK07	1	SA
14	STAND-BASE	BN61-00824A	ABS HB,BK07	1	SNA
15	STAND-HOLDER	BN61-00821A	ABS HB,BK07	1	SNA

6-2 MJ15BS*



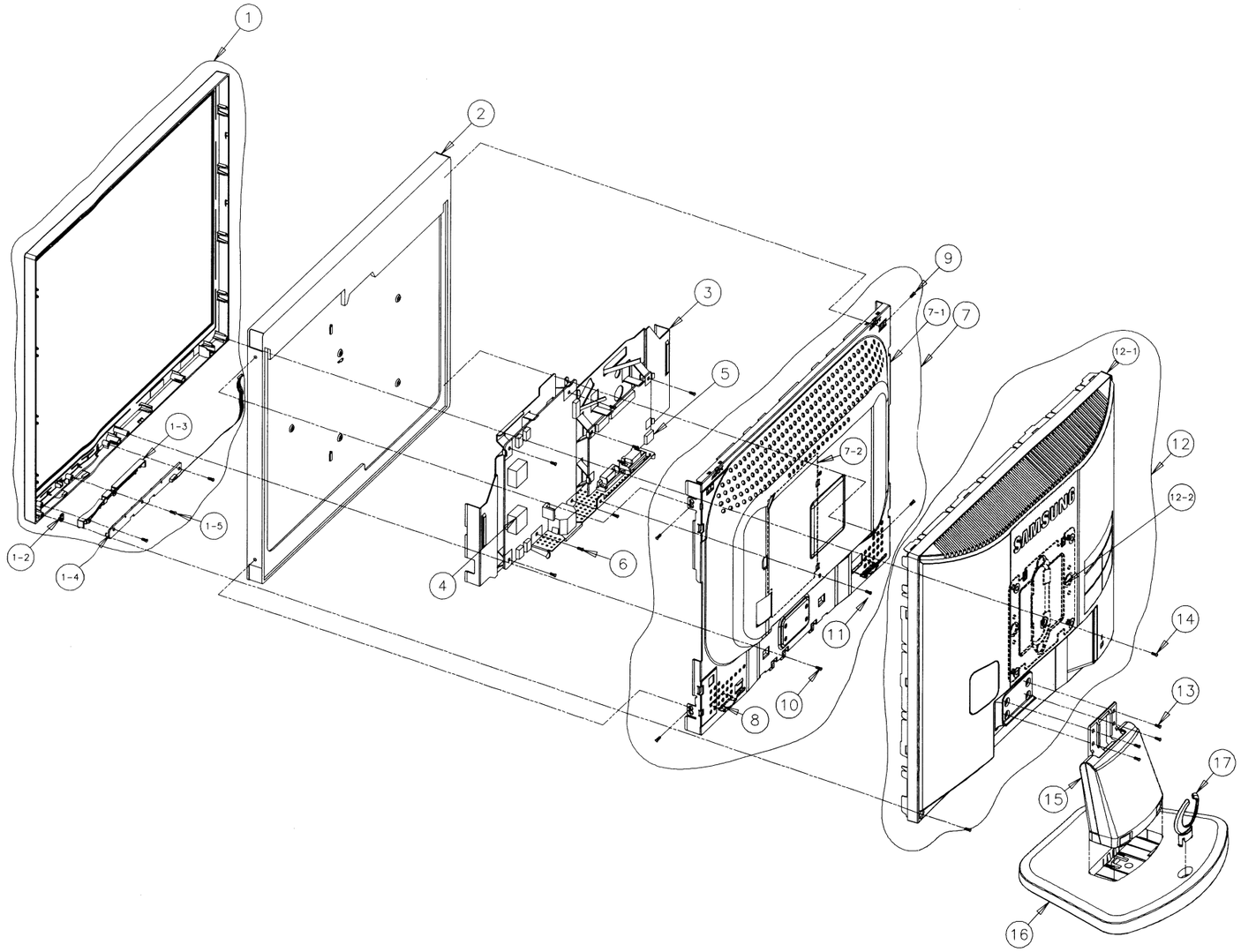
No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01052A	ABS HB,GR70,SILVER	1	SA
1-1	COVER-FRONT	BN63-01206A	ABS HB GR70 SILVER	1	SNA
1-2	LENS-LED	BN67-00120A	ACRYL,CLEAR	1	SNA
1-3	KNOB-FUNCTION	BN64-00257A	ABS+PC,GR70 SILVER	1	SNA
1-4	FUNCTION-PCB	BN96-01111A	-	1	SNA
1-5	SCREW TAPTITE	6003-000282	BH,+,B,M3,L8,ZPC(BLK),SWRC	3	SA
2	PANEL	BN07-00164B	LTM150XO-L01	1	SA
3	BRKT-PCB	BN61-01068B	SECC T1.0, DUAL TYPE	1	SNA
4	IP-BOARD	BN44-00107B	-	1	SA
5	MAIN-BOARD	BN94-00527D	-	1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	7	SA
7	ASSY,SHIELD-COVER	BN96-01058A	-	1	SNA
7-1	SHIELD-COVER	BN63-01192A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01213A	PC SHEET V2,T0.35	1	SNA
8	SCREW-MACHINE	6001-000125	BH,+,M3,L4,ZPC(YEL),SM20C,	4	SA
9	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
10	ASSY,COVER-REAR	BN96-01053A	ABS HB,BK07	1	SA
10-1	COVER-REAR	BN63-01207A	ABS HB,BK07	1	SNA
10-2	BRKT-VESA	BN61-00379A	GOYA 153S,SECC,T2.0	1	SNA
11	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
12	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
13	ASSY,STAND	BN96-01063A	ABS HB,BK07	1	SA
14	STAND-BASE	BN61-00824A	ABS HB,BK07	1	SNA
15	STAND-HOLDER	BN61-00821A	ABS HB,BK07	1	SNA

6-3 MJ17AS*



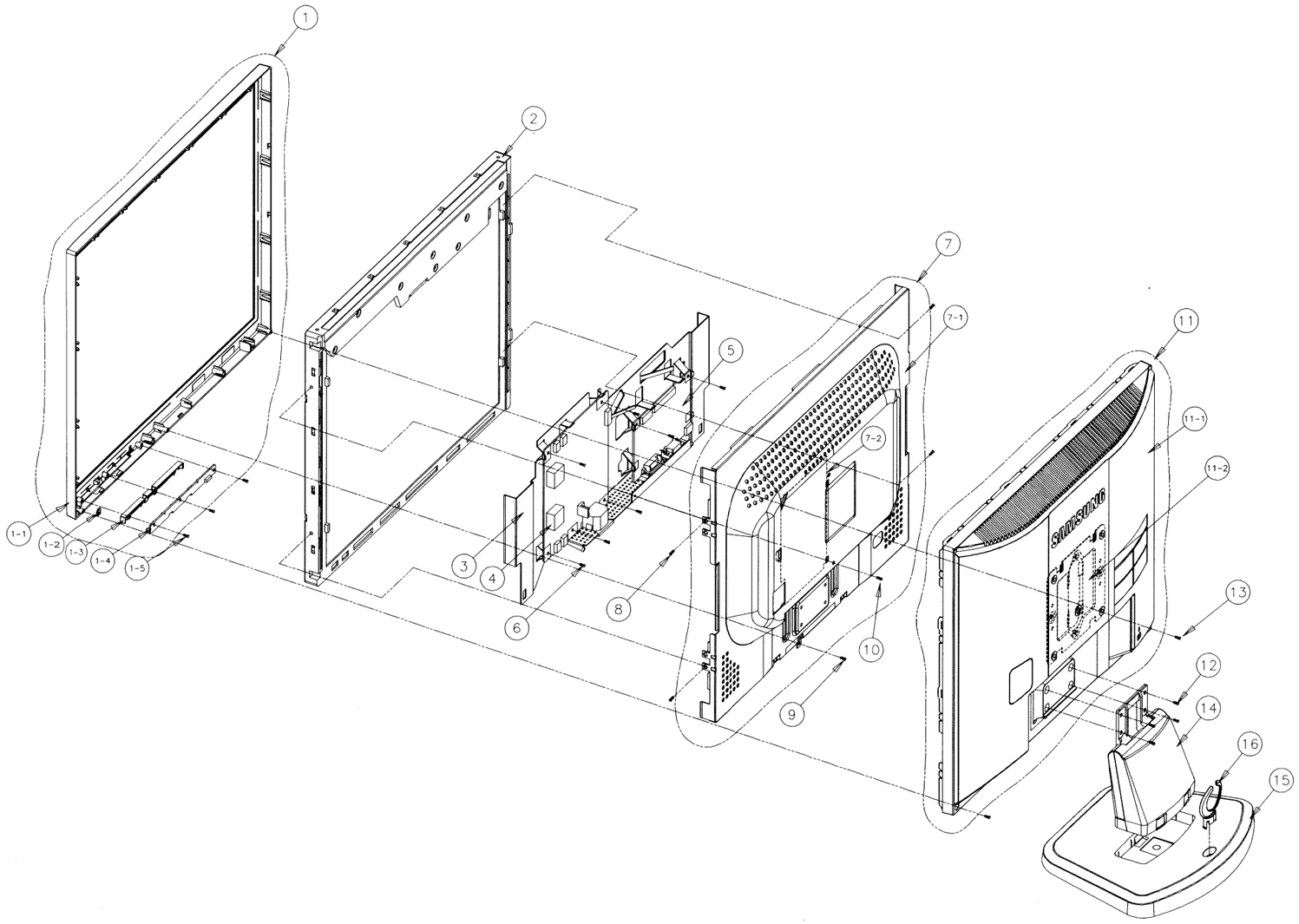
No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01056B	ABS HB,SILVER	1	SA
1-1	COVER-FRONT	BN63-01208A	ABS HB GR70 SILVER	1	SNA
1-2	LENS-LED	BN67-00120A	ACRYL,CLEAR	1	SNA
1-3	KNOB-FUNCTION	BN64-00257A	ABS+PC,GR70 SILVER	1	SNA
1-4	FUNCTION-PCB	BN96-01111A	-	1	SNA
1-5	SCREW TAPTITE	6003-000282	BH,+,B,M3,L8,ZPC(BLK),SWRC	3	SA
2	PANEL	BN07-00160B	L381.70(H)-(17,020R,6817),358.5x296.5x17.5,16.2K,40,0.264x0.264,0°30,5H,1H	1	SA
3	BRKT-PCB	BN61-01102A	SECC T1.0	1	SNA
4	IP-BOARD	BN44-00113A	-	1	SA
5	MAIN-BOARD	BN94-00527C	-	1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	7	SA
7	ASSY,SHIELD-COVER	BN96-01059A	-	1	SNA
7-1	SHIELD-COVER	BN63-01211A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01313A	PC SHEET V2,T0.35,106*144	1	SNA
8	PANEL-SPACER	BN64-00258A	ABS,HB,BK07	2	SNA
9	SCREW-MACHINE	6001-000559	FH,+,M3,L6,ZPC(YEL)	4	SA
10	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
11	SCREW-TAPTITE	6003-000276	BH,+,B,M3,L10,ZPC(YEL),SWRC	1	SA
12	ASSY,COVER-REAR	BN96-01054B	ABS HB,BK07	1	SA
12-1	COVER-REAR	BN63-01216B	ABS HB,BK07	1	SNA
12-2	BRKT-VESA	BN61-00377A	GY17LS,SECC,T1.0,100*100	1	SNA
13	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
14	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
15	ASSY,STAND	BN96-01063A	ABS HB,BK07	1	SA
16	STAND-BASE	BN61-00824A	ABS HB,BK07	1	SNA
17	STAND-HOLDER	BN61-00821A	ABS HB,BK07	1	SNA

6-4 MJ17BS*



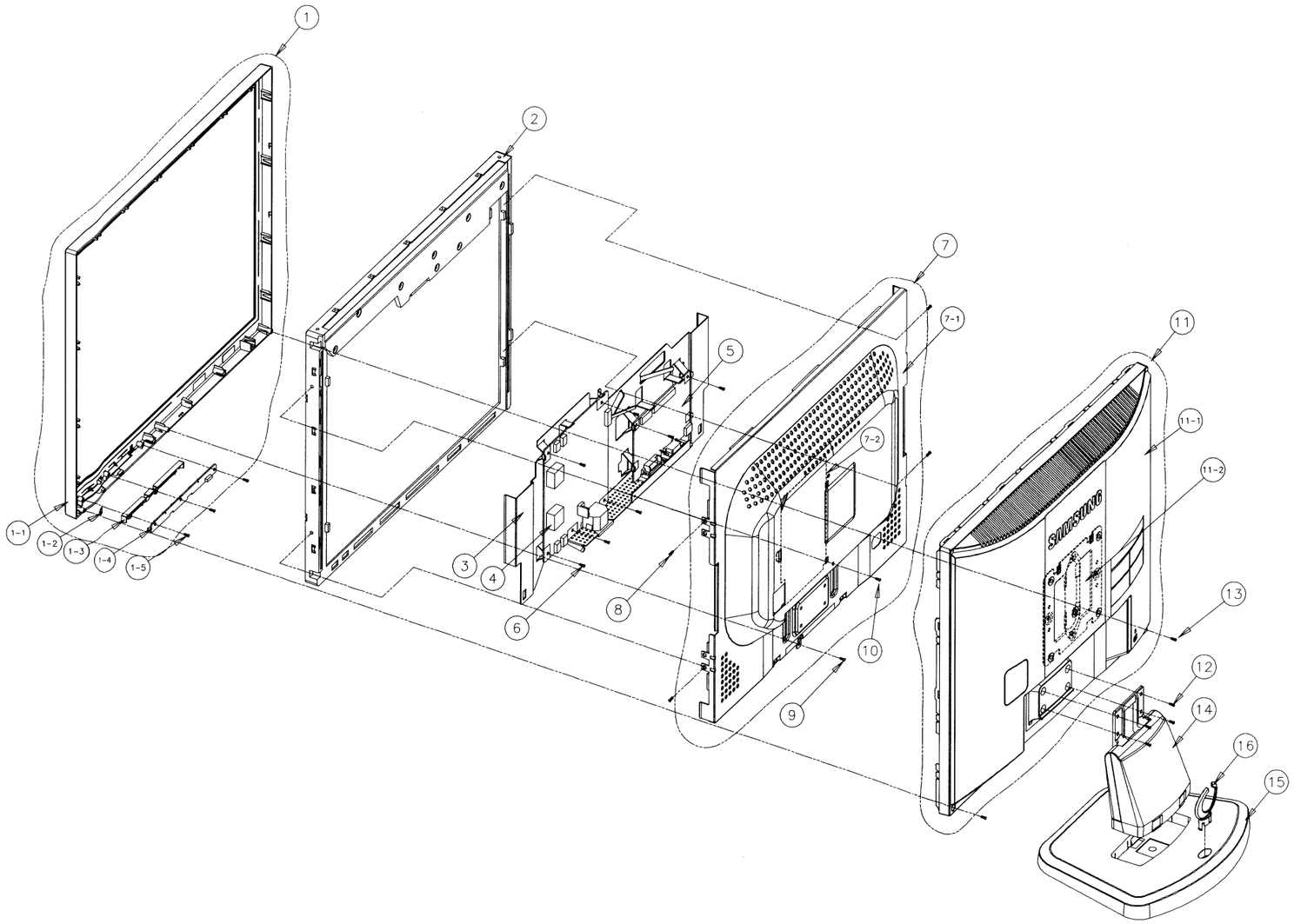
No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01056A	ABS HB,SILVER	1	SA
1-1	COVER-FRONT	BN63-01208A	ABS HB GR70 SILVER	1	SNA
1-2	LENS-LED	BN67-00120A	ACRYL,CLEAR	1	SNA
1-3	KNOB-FUNCTION	BN64-00257A	ABS+PC,GR70 SILVER	1	SNA
1-4	FUNCTION-PCB	BN96-01111A	-	1	SNA
1-5	SCREW TAPTITE	6003-000282	BH,+,B,M3,L8,ZPC(BLK),SWRC	3	SA
2	PANEL	BN07-00160B	LCM7009-111,0200,6811,358.5x296.5x17.5,16.2R,40.0,264*0.264*0.750,59.7R	1	SA
3	BRKT-PCB	BN61-01102B	SECC T1.0,DUAL TYPE	1	SNA
4	IP-BOARD	BN44-00113A	-	1	SA
5	MAIN-BOARD	BN94-00527C	-	1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	7	SA
7	ASSY,SHIELD-COVER	BN96-01059A	-	1	SNA
7-1	SHIELD-COVER	BN63-01211A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01313A	PC SHEET V2,T0.35,106*144	1	SNA
8	PANEL-SPACER	BN64-00258A	ABS,HB,BK07	2	SNA
9	SCREW-MACHINE	6001-000559	FH,+,M3,L6,ZPC(YEL)	4	SA
10	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
11	SCREW-TAPTITE	6003-000276	BH,+,B,M3,L10,ZPC(YEL),SWRC	1	SA
12	ASSY,COVER-REAR	BN96-01054A	ABS HB,BK07	1	SA
12-1	COVER-REAR	BN63-01216A	ABS HB,BK07	1	SNA
12-2	BRKT-VESA	BN61-00377A	GY17LS,SECC,T1.0,100*100	1	SNA
13	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
14	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
15	ASSY,STAND	BN96-01063A	ABS HB,BK07	1	SA
16	STAND-BASE	BN61-00824A	ABS HB,BK07	1	SNA
17	STAND-HOLDER	BN61-00821A	ABS HB,BK07	1	SNA

6-5 MJ19AS*



No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01057B	ABS HB,SILVER	1	SA
1-1	COVER-FRONT	BN63-01214A	ABS HB GR70 SILVER	1	SNA
1-2	LENS-LED	BN67-00120A	ACRYL,CLEAR	1	SNA
1-3	KNOB-FUNCTION	BN64-00257A	ABS+PC,GR70 SILVER	1	SNA
1-4	FUNCTION-PCB	BN96-01111A	-	1	SNA
1-5	SCREW TAPTITE	6003-000282	BH,+,B,M3,L8,ZPC(BLK),SWRC	3	SA
2	PANEL	BN07-00151B	LBOSE1:LGI,GDD,GB1T,40A,2x10x25,16.3K,40.0,2944.2,94,F58,5F,P8A	1	SA
3	BRKT-PCB	BN61-01103A	SECC T1.0	1	SNA
4	IP-BOARD	BN44-00113A	-	1	SA
5	MAIN-BOARD	BN94-00516T	-	1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	7	SA
7	ASSY,SHIELD-COVER	BN96-01060A	-	1	SNA
7-1	SHIELD-COVER	BN63-01217A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01313A	PC SHEET V2,T0.35,106*144	1	SNA
8	SCREW-MACHINE	6001-000131	BH,+,M3,L6,ZPC(YEL),SM20C,	4	SA
9	SCREW-TAPTITE	6003-000276	BH,+,B,M3,L10,ZPC(YEL)	1	SA
10	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
11	ASSY,COVER-REAR	BN96-01055B	ABS HB,BK07	1	SA
11-1	COVER-REAR	BN63-01215B	ABS HB,BK07	1	SNA
11-2	BRKT-VESA	BN61-00377A	GY17LS,SECC,T1.0,100*100	1	SNA
12	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
13	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
14	ASSY,STAND	BN96-01064A	ABS HB,BK07	1	SA
15	STAND-BASE	BN61-01060A	ABS HB,BK07	1	SNA
16	STAND-HOLDER	BN61-00821A	ABS HB,BK07	1	SNA

6-6 MJ19BS*



No.	DESCRIPTION	CODE No.	SPECIFICATION	Q'ty	REMARK
1	ASSY,COVER-FRONT	BN96-01057A	ABS HB,SILVER	1	SA
1-1	COVER-FRONT	BN63-01214A	ABS HB GR70 SILVER	1	SNA
1-2	LENS-LED	BN67-00120A	ACRYL,CLEAR	1	SNA
1-3	KNOB-FUNCTION	BN64-00257A	ABS+PC,GR70 SILVER	1	SNA
1-4	FUNCTION-PCB	BN96-01111A	-	1	SNA
1-5	SCREW TAPTITE	6003-000282	BH,+,B,M3,L8,ZPC(BLK),SWRC	3	SA
2	PANEL	BN07-00151B	[illegible]	1	SA
3	BRKT-PCB	BN61-01103B	SECC T1.0,DUAL TYPE	1	SNA
4	IP-BOARD	BN44-00113A	-	1	SA
5	MAIN-BOARD	BN94-00516T	-	1	SA
6	SCREW TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	7	SA
7	ASSY,SHIELD-COVER	BN96-01060A	-	1	SNA
7-1	SHIELD-COVER	BN63-01217A	SECC T1.0	1	SNA
7-2	COVER-INSULATOR	BN63-01313A	PC SHEET V2,T0.35,106*144	1	SNA
8	SCREW-MACHINE	6001-000131	BH,+,M3,L6,ZPC(YEL),SM20C,	4	SA
9	SCREW-TAPTITE	6003-000276	BH,+,B,M3,L10,ZPC(YEL)	1	SA
10	SCREW-TAPTITE	6003-000117	BH,+,B,M3,L6,ZPC(YEL),SWRC	1	SA
11	ASSY,COVER-REAR	BN96-01055A	ABS HB,BK07	1	SA
11-1	COVER-REAR	BN63-01215A	ABS HB,BK07	1	SNA
11-2	BRKT-VESA	BN61-00377A	GY17LS,SECC,T1.0,100*100	1	SNA
12	SCREW-TAPTITE	6003-000337	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	4	SA
13	SCREW-TAPTITE	6003-001086	BH,+,B,M3,L12,ZPC(BLK),SWRCH18	2	SA
14	ASSY,STAND	BN96-01064A	ABS HB,BK07	1	SA
15	STAND-BASE	BN61-01060A	ABS HB,BK07	1	SNA
16	STAND-HOLDER	BN61-00821A	ABS HB,BK07	1	SNA

7 Electrical Parts List

※ You can search for updated part codes through ITSELF web site.
URL : http://itself.sec.samsung.co.kr/

7-1-1 MJ15AS* Main PCB Parts

Level	Loc. No.	Code No.	Description	Specification	Remarks
0	MJ15AS				
1	E27-MJ15AS	-	1	SEC,LTM150XO-L01	-
3	BN94-00527D	-	ASSY PCB MAIN	MJ15AS	SNA
4	0204-002420	CIS3	SOLVENT	1M-1000,C3H7OH,96,-,-	SNA
4	0204-002426	CIS4	FLUX	DF-201TVS,MIX,0.820,FLUX13%,14KG,-	SNA
4	3701-001219	CN101	CONNECTOR-DSUB	15P,3R,FEMALE,ANGLE,AUF	SA
4	3711-004712	CN600	CONNECTOR-HEADER	BOX,9P,1R,2mm,STRAIGHT,SN	SA
4	6003-000117	IP/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	6003-000117	M/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	BN97-00354K	MICOM	ASSY MICOM	GS17VS	SA
5	0903-001347	IC200	IC-MICROCONTROLLER	NT68F63GL,8Bit,PLCC,44P,653MIL,12MHz,ST,-,PLASTIC,5.000000V,-,0to+70C,256B,-,-	SNA
5	BN82-00114L	CIS	A/S MICOM	GS17VS	SNA
4	BN97-00358T	-	ASSY SMD	MJ15AS	SNA
5	3301-000314	BD100	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD101	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD102	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD103	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD104	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD105	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	2703-001334	BD106	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	3301-000314	BD200	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD201	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	2203-005005	C100	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C101	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C102	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C103	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C104	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C105	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000257	C106	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-005005	C110	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C112	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C114	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000236	C116	C-CER,CHIP	0.1NF,5%,50V,C0G,TP,1608	SA
5	2203-000998	C117	C-CER,CHIP	0.047NF,5%,50V,C0G,TP,1608	SA
5	2203-005005	C200	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005437	C201	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2203-005005	C203	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005437	C205	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2203-005065	C206	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-000257	C221	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C222	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000189	C224	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	SA
5	2203-005005	C400	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001042	C401	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2203-005005	C402	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C403	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C404	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C405	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C406	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C407	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C408	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C409	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C410	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C411	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C412	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C413	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C414	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C415	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000426	C416	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000257	C417	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000426	C418	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-005005	C419	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C420	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C421	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-000108	C422	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA

Level	Loc. No.	CodeNo.	Description	Specification	Remarks
5	2203-005005	C423	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C424	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005065	C603	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005005	C604	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C605	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005065	C606	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2402-001042	C607	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2203-005005	C608	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001042	C609	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2203-005005	C610	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001042	C611	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C612	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	3711-005543	CN200	CONNECTOR-HEADER	BOX,6P,1R,1.25mm,SMD-A,SnPb,IVR	SA
5	3711-005470	CN400	CONNECTOR-HEADER	BOX,30P,1R,1.25mm,SMD-A,Sn+Pb,IVR	SA
5	0403-001411	D100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0401-001056	D101	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D103	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D105	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0402-001080	D600	DIODE-RECTIFIER	GF1G,400V,1A,DO,TP	SA
5	0406-001061	IC106	DIODE-TVS	MMQA5V6T3,5.32/5.6/5.88V,24W,S	SA
5	1103-001023	IC201	IC-EEPROM	24C08,1Kx8,SOP,8P,5x4mm,2.5/5.5V,0to+70C	SA
5	1003-001674	IC400	IC-LCD CONTROLLER	SE7889,PQFP,100P,23.45x17.45mm,-,-,TR,PLASTIC,0.3-3.6V,0to+70C,-,-,-	SNA
5	0505-001772	IC600	FET-SILICON	FDS9933A,P,-20V,-3.8A,0.075OHM,2W,SO-8	SA
5	1203-003209	IC601	IC-DUAL VOLTAGE REGULATOR	APL5522,SOP,8P,4.9x3.9mm,PLASTIC,3.3V/2.5V,-,0to+150C,500mA/300mA,-,TP	SA
5	1203-001293	IC602	IC-POSI.FIXED REG.	033,TO-252,3P,6.5MIL,PLASTIC,3	SA
5	BN41-00412A	MP1.0	PCB MAIN	MJ/GS,SILVER THROGH HOLE,2L,1.0,1.6T,118*78.2,4A	SNA
5	0501-002080	Q601	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	2007-000821	R106	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R107	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R108	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R109	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R118	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2703-001334	R119	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2007-001164	R120	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2703-001334	R121	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2007-000084	R122	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R123	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R124	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000113	R134	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R135	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R136	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R137	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R138	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R139	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R200	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R202	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R203	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R204	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R205	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R206	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R207	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R208	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R209	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R210	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R211	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R212	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R214	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R216	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R217	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R219	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000077	R221	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000080	R222	R-CHIP	2Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R223	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R224	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R225	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R226	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R227	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R228	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R229	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R230	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R231	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R232	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000083	R233	R-CHIP	3Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R234	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R235	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R236	R-CHIP	100ohm,5%,1/10W,TP,1608	SA

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2007-000074	R237	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000084	R238	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R239	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R240	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000078	R241	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R242	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000077	R243	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R244	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R247	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R400	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R401	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R402	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000821	R403	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-000070	R502	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R503	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R600	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R602	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R603	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R604	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2801-003773	X400	CRYSTAL-SMD	12MHZ,30PPM,28-AAN,20PF,50OHM,TP	SA
5	0403-001411	ZD100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD101	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD102	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD103	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD104	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD200	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
2	BN90-00486D	-	ASSY STAND	MJ17BS/GS17VT/GS17MS,EDC	SNA
3	BN96-01063A	STD	ASSY STAND P-SIMPLE	MJ15/17ASBS,ABS HB,BK07	SNA
4	6003-000269	STD	SCREW-TAPTITE	BH,+,S,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	6003-001086	STD	SCREW-TAPTITE	BH,+,B,M3,L12,ZPC(BLK),SWRCH18A	SNA
4	BN61-00822A	STD	STAND-BRKT HINGE	GS17VS,SECC,T1.2	SNA
4	BN61-00825A	STD	STAND-FRONT	GS17VS,ABS HB,BK07	SNA
4	BN61-00826A	STD	STAND-REAR	GS17VS,ABS HB,BK07	SNA
4	BN96-01061A	STD	ASSY MISC P-HINGE	MJ15-17AS/BS,ZNDC2	SNA
2	BN90-00640L	-	ASSY COVER FRONT	MJ15AS	SNA
3	6003-001086	C/F+C/R	SCREW-TAPTITE	BH,+,B,M3,L12,ZPC(BLK),SWRCH18A	SNA
3	BN96-01052B	C/F	ASSY COVER P-FRONT	MJ15*S,ABS HB,GR70,SILVER SPRAY	SNA
4	6003-000282	C/F	SCREW-TAPTITE	BH,+,B,M3,L8,ZPC(BLK),SWCH10	SNA
4	BN63-01206A	C/F	COVER-FRONT	MJ15*S,ABS HB,GR70,SILVER	SNA
4	BN64-00257A	C/F	KNOB-FUNCTION	MJ17AS/BS,ABS+PC,HB,GR70	SNA
4	BN67-00120A	C/F	LENS-LED	MATISSE,ACRYL,CLEAR	SA
4	BN96-01111A	C/F	ASSY BOARD P-FUNCTION	MATISSE,FUNCTION	SNA
2	BN90-00641E	-	ASSY COVER REAR	MJ15AS	SNA
3	6003-000337	C/R+STD	SCREW-TAPTITE	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	SNA
3	BN96-01053B	C/R	ASSY COVER P-REAR	MJ15*S,ABS HB,BK07	SNA
4	BN61-00379A	C/R	BRACKET-STAND VESA	GOYA153S,SECC,T2.0,,,,	SNA
4	BN63-01207B	C/R	COVER-REAR	MJ15AS,ABS HB,BK07,NONE,1.5	-
2	BN91-00403W	-	ASSY LCD-E27	MJ15BS	SNA
3	BN07-00164A	LCD	LCD-PANEL	LTM150X0-L01,Matisse,6 BIT,326.5*253.5*12,16.2M,40,0.297*0.297,0~50,3.3V,TN	SNA
2	BN91-00784U	-	ASSY CHASSIS	GY17HS	SA
3	BN44-00107B	CIS	IP BOARD	DAC-12M001B,MT15,4.5mA,8.0mA,48KHZ,2,90V/264VAC,+13V/+5V,0 to +40,-20 to +60,50/	SNA
3	BN61-01068A	CIS	BRACKET-PCB	MJ15AS,SECC,T1.0	SNA

7-1-2 MJ15AS* Others

Level	Loc. No.	Code No.	Description	Specification	Remarks
2	BN91-00785H	-	ASSY SHIELD	MJ15BS/GS15MS/MJ15AS	SNA
3	0203-001598	CIS	TAPE-FILAMENT	#8915,0.15,12,55000,CLR	SNA
3	6001-000125	SH/COV+PAN	SCREW-MACHINE	BH,+,M3,L4,ZPC(YEL),SM20C,-	SNA
3	6003-000117	SH/COV+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
3	BN39-00244A	CIS	CBF SIGNAL	BU15A0(T541A),15P/15P,20276-N,1830MM,UL20276,BLACK,D-SUB/MALE ,DET. TYPE	SA
3	BN39-00507A	CIS	LEAD CONNECTOR	MJ15*S,UL1571#30,20P/30P,90mm,#30,12507HS-20,12507HS-30L,BK,SJ03-01-636,AT TAPE	SNA
3	BN39-00523B	CIS	LEAD CONNECTOR	GS(MJ15*,UL1061#28,UL/CSA,6P/5P,250mm,#28,12507HS-06L,12505HS-05,BK,HP04-01-006	SNA
3	BN96-01058A	CIS	ASSY MISC P-SHIELD COVER	MJ15AS/BS,SECC T0.8	SNA
2	BN92-00709A	-	ASSY LABEL	GY17VS,,,,	SNA
3	BN68-00614A	LABEL	LABEL RATING-00	ALL,SS,PE,T0.05,90*45,BLK,POLYESTER,NO SILK	SNA
2	BN92-00809Q	-	ASSY ACCESSORY	MJ17ASSS/EDC,EDC,NETHERLANDS	-
3	BN96-01108A	ACCESSORY	ASSY STAND P-BASE	MJ17AS/BS,ABS HB,BK07	SNA
4	6003-001185	STAND/BASE	SCREW-TAPTITE	FH,+,B,M3,L8,NI PLT,SWRCH18A	SNA
4	6009-001442	STAND/BASE	SCREW-SPECIAL	CH,-,-,M4,L10(5),ZPC(YEL),SWRCH18A,-,HD12.2 BODY	SA
4	6902-000110	STAND/BASE	BAG PE	LDPE,T0.05,L356,W240,TRP,28,2,PE MARK	SNA
4	6902-000336	STAND/BASE	BAG ZIPPER	LDPE,T0.05,L80,W70,TRP,,,PE MARK	SNA
4	BH68-20366B	STAND/BASE	LABEL-00,STANDE BASE	MJ15,17,ART PAPER,55X10,RED	SNA
4	BN61-00048A	STAND/BASE	FOOT-RUBBER	GH15LS,PORON,DIA13.5MM,BLACK,2MM,-,-	SNA
4	BN61-00821A	STAND/BASE	STAND-HOLDER	GS17VS,ABS HB,BK07	SNA
4	BN61-00824A	STAND/BASE	STAND-BASE	GS17VS,ABS HB,BK07	SNA
4	BN61-01167A	STAND/BASE	BRACKET-BASE/SUPPORT	MJ17AS/BS,SECC,T1.2	SNA
4	BN68-00473P	STAND/BASE	MANUAL INSTALL	Goya2 Stand Guide,SyncMaster,W/W	SNA
3	BN96-01154V	UNIT/ACCESSORY	ASSY ACCESSORY	MJ15/17/19AS,BS,EDC,NETHERLANDS	SA
4	0203-000214	ACCESSORY	TAPE-OPP MASKING	OPP/W50/CLR,T0.05,W50,L400000,	SNA
4	3903-000042	ACCESSORY	CBF-POWER CORD	DT,EU,FP3/YES,IEC320 C13/C14,250/250V,10-16/10A,BLK,1830MM,-,H05VV-F 3X0.75MM^2,	SA
4	6902-000110	ACCESSORY	BAG PE	LDPE,T0.05,L356,W240,TRP,28,2,PE MARK	SNA
4	BH68-70438A	ACCESSORY	CARD-BLOC WARRANTY-09	TFT LCD,BASIC,EU,MOJO,100G,W21	SNA
4	BH68-70448A	ACCESSORY	CARD-01	TFT LCD,SRC,RUSSIA,S/W,120,W210*L120,INSTALL CARD	SNA
4	BN96-01171A	ACCESSORY	ASSY MANUAL P-IB+QSG	710N,SyncMaster,W/W,27Lang,BN59-420A+BH68-376L	SNA
5	BH68-00376L	CIS	MANUAL-01	LCDQUICK SETUP GUIDE,SYNCMASTER,E/F/S/G/P/I,13LANGS,W/W,MOJO100G,298,420	SA
5	BN59-00420A	CIS	S/W DRIVER-00,IB	710T,W/W,SyncMaster,27 Lang	SNA
2	BN92-00982J	-	ASSY P/MATERIAL	MJ15BS/AS,EDC	SNA
3	0203-001100	P/M	TAPE-OPP MASKING	OPP/W75/CLR,T0.05,W75,L800000,CLR	SNA
3	6902-000379	P/M	BAG AIR	HDPE,T0.2,L1800,W1000,TRP,,,PAPER	SNA
3	6902-000520	P/M	BAG PE	HDPE(NITRON(DOUBLE),T0.015/T0.5(DOUBLE),W700,L700,TRP,28 LANGUAGE,2-	SNA
3	6902-000604	P/M	BAG WRAPPING	LDPE,T0.02,W500,L10000,TRP,-,-	SNA
3	6902-000609	P/M	BAG ROLL	LDPE,T0.05,W2400,L1000,TRP,-,-	SNA
3	BH69-00457B	P/M	PACKING-PAD BOTTOM	GH15,FOAM,T3.0,930,1000	SNA
3	BH69-40321A	P/M	PACKING-PAD	SW-4,W2155*L140,-,DEC,-,-,-,-	SNA
3	BN68-00129A	P/M	LABEL SHIPPING	-,LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,-	SNA
3	BN69-00140R	P/M	PAD-PALLET COVER	IBM(T85),SW,1000*3500,1166,-,-,-,-,-	SNA
3	BN69-00140W	P/M	PAD PACKING	VR22KO,CB SW-4,700,3800,YEL	SNA
3	BN69-00617J	P/M	PALLET-PACKING	TS15AS,WOODEN,1150,780,120	SNA
3	BN69-00739A	P/M	CUSHION	MJ15AS,EPS M50	SNA
2	BN92-01043C	-	ASSY BOX	MJ15BS/AS,EDC	SNA
3	BH68-00329C	BOX	LABEL BAR CODE-02	ALL,TC099,DOMESTIC,MOJO 90G,WHT	SNA
3	BN69-00760A	BOX	BOX-01	S/M510N(MJ15AS),W/W,SW4,YEL,A-1,W376*D371*H101,SIMPLE	SNA
1	E28-MJ15AS	-	2	SEC,LTM150XO-L01(ZPD)	-

7-2-1 MJ17AS* Main PCB Parts

Level	Loc. No.	Code No.	Description	Specification	Remarks
0	MJ17ASAB				
1	E23-MJ17ASAB	-	1	SEC,LTM170EU-L11	-
3	BN94-00527C	-	ASSY PCB MAIN	MJ17AS	SNA
4	0204-002420	CIS3	SOLVENT	1M-1000,C3H70H,96,-,-	SNA
4	0204-002426	CIS4	FLUX	DF-201TVS,MIX,0.820,FLUX13%,14KG,-	SNA
4	3701-001219	CN101	CONNECTOR-DSUB	15P,3R,FEMALE,ANGLE,AUF	SA

Level	Loc. No.	Code No.	Description	Specification	Remarks
4	3711-004712	CN600	CONNECTOR-HEADER	BOX,9P,1R,2mm,STRAIGHT,SN	SA
4	6003-000117	IP/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	6003-000117	M/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	BN97-00354K	MICOM	ASSY MICOM	GS17VS	SA
5	0903-001347	IC200	IC-MICROCONTROLLER	NT68F63GL,8Bit,PLCC,44P,653MIL,12MHz,ST,-,PLASTIC,5.000000V,-,0to+70C,256B,-,-	SNA
5	BN82-00114L	CIS	A/S MICOM	GS17VS	SNA
4	BN97-00358S	-	ASSY SMD	MJ17AS	SNA
5	3301-000314	BD100	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD101	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD102	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD103	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD104	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD105	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	2703-001334	BD106	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	3301-000314	BD200	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD201	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	2203-005005	C100	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C101	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C102	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C103	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C104	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C105	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000257	C106	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-005005	C110	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C112	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C114	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000236	C116	C-CER,CHIP	0.1NF,5%,50V,C0G,TP,1608	SA
5	2203-000998	C117	C-CER,CHIP	0.047NF,5%,50V,C0G,TP,1608	SA
5	2203-005005	C200	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005437	C201	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2203-005005	C203	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005437	C205	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2203-005065	C206	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-000257	C221	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C222	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000189	C224	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	SA
5	2203-005005	C400	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001042	C401	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2203-005005	C402	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C403	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C404	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C405	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C406	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C407	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C408	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C409	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C410	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C411	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C412	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C413	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C414	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C415	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000426	C416	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000257	C417	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000426	C418	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-005005	C419	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C420	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C421	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-000108	C422	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2203-005005	C423	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C424	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005065	C603	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005005	C604	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C605	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005065	C606	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2402-001042	C607	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2203-005005	C608	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001042	C609	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2203-005005	C610	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001042	C611	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C612	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	3711-005543	CN200	CONNECTOR-HEADER	BOX,6P,1R,1.25mm,SMD-A,SnPb,IVR	SA
5	3711-005470	CN400	CONNECTOR-HEADER	BOX,30P,1R,1.25mm,SMD-A,Sn+Pb,IVR	SA
5	0403-001411	D100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	0401-001056	D101	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D103	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D105	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0402-001080	D600	DIODE-RECTIFIER	GF1G,400V,1A,DO,TP	SA
5	3301-001145	FT600	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	0406-001061	IC106	DIODE-TVS	MMQA5V6T3,5.32/5.6/5.88V,24W,S	SA
5	1103-001023	IC201	IC-EEPROM	24C08,1Kx8,SOP,8P,5x4mm,2.5/5.5V,0to+70C	SA
5	1003-001674	IC400	IC-LCD CONTROLLER	SE7889,PQFP,100P,23.45x17.45mm,-,-,TR,PLASTIC,0.3-3.6V,0to+70C,-,-,-	SNA
5	0505-001772	IC600	FET-SILICON	FDS9933A,P,-20V,-3.8A,0.075OHM,2W,SO-8	SA
5	1203-003209	IC601	IC-DUAL VOLTAGE REGULATOR	APL5522,SOP,8P,4.9x3.9mm,PLASTIC,3.3V/2.5V,-0to+150C,500mA/300mA,-,TP	SA
5	BN41-00412A	MP1.0	PCB MAIN	MJ/GS,SILVER THROGH HOLE,2L,1.0,1.6T,118*78.2,4A	SNA
5	0501-002080	Q601	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	2007-000821	R106	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R107	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R108	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R109	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R118	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2703-001334	R119	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2007-001164	R120	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2703-001334	R121	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2007-000084	R122	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R123	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R124	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000113	R134	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R135	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R136	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R137	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R138	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R139	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R200	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R202	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R203	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R204	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R205	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R206	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R207	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R208	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R209	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R210	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R211	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R212	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R214	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R216	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R217	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R219	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000077	R221	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000080	R222	R-CHIP	2Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R223	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R224	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R225	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R226	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R227	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R228	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R229	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R230	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R231	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R232	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000083	R233	R-CHIP	3Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R234	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R235	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R236	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R237	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000084	R238	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R239	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R240	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000078	R241	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R242	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000077	R243	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R244	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R247	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R400	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R401	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R402	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000821	R403	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-000070	R502	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R503	R-CHIP	0ohm,5%,1/10W,TP,1608	SA

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2007-000090	R600	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R602	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R603	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R604	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2801-003773	X400	CRYSTAL-SMD	12MHZ,30PPM,28-AAN,20PF,50OHM,TP	SA
5	0403-001411	ZD100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD101	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD102	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD103	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD104	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD200	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA

7-2-2 MJ17AS* Others

Level	Loc. No.	Code No.	Description	Specification	Remarks
2	BN90-00329T	-	ASSY STAND	MJ17ASAB/*,BK07,PIVOT	SNA
3	BN96-01193B	STD	ASSY STAND P-PIVOT	Matisse17/19,ABS HB,BK07	SNA
2	BN90-00641C	-	ASSY COVER REAR	MJ17AS	SNA
3	6003-000337	C/R+STD	SCREW-TAPTITE	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	SNA
3	BN96-01054B	C/R	ASSY COVER P-REAR	MJ17AS,ABS HB,BK07	SNA
4	BN61-00377A	C/R	BRACKET-VESA	GOYA19(193V),SECC,T1.0	SNA
4	BN63-01209B	C/R	COVER-REAR	MJ17AS,ABS HB,BK07,NONE1.5	-
2	BN90-00642V	-	ASSY COVER FRONT	MJ17ASAB,ADC,BK07,S/M711N	SNA
3	6003-001086	C/F+C/R	SCREW-TAPTITE	BH,+,B,M3,L12,ZPC(BLK),SWRCH18A	SNA
3	BN96-01056G	C/F	ASSY COVER P-FRONT	MJ17AS (S/M 711N),ABS HB,BK07	SNA
4	BN61-01243A	C/F	HOLDER-PCB	MJ17,ABS HB,BK07	SNA
4	BN63-01208B	C/F	COVER-FRONT	MJ17AS,ABS HB,BK07	-
4	BN64-00288C	C/F	KNOB-FUNCTION	MJ15/17/19,ABS,PC,BK07	SNA
4	BN67-00120A	C/F	LENS-LED	MATISSE,ACRYL,CLEAR	SA
4	BN96-01111A	C/F	ASSY BOARD P-FUNCTION	MATISSE,FUNCTION	SNA
2	BN91-00349P	-	ASSY LCD-E23	GY17HS	SNA
3	BN07-00160A	LCD	LCD-PANEL	LTM170EU-L11,GOGH,6BIT,358.5*296.5*17.5,16.2M,40,0.264*0.264,0~50,5V,TN	SA
2	BN91-00784S	-	ASSY CHASSIS	MJ17AS	SA
3	BN44-00113A	CIS	IP BOARD	MATISSE,1.5mA~3.0mA,6.1mA~7.3mA,48kHz,4,AC80V~264VAC,5Vdc /13Vdc,0°... °≠ 32° ...,50/	SNA
3	BN61-01102A	CIS	BRACKET-PCB	MJ17AS,SECC,T1.0	SNA
2	BN91-00785D	-	ASSY SHIELD	MJ17BS/AS	SNA
3	0203-001598	CIS	TAPE-FILAMENT	#8915,0.15,12,55000,CLR	SNA
3	BN39-00244A	CIS	CBF SIGNAL	BU15AQ(T541A),15P/15P,20276-N,1830MM,UL20276,BLACK,D-SUB/MALE .DET. TYPE	SA
3	BN39-00513A	CIS	LEAD CONNECTOR	MJ17AS(BS),UL1571#30,UL/CSA,30P,160mm,#30,1635L-30,12507HS-30L,BK,SJ03-01-638,AT	SNA
3	BN39-00523C	CIS	LEAD CONNECTOR	MJ17/19*,UL1061#28,UL/CSA,6P/5P,90mm,#28,12507HS-06L,12505HS-05,BK,AT TAPE	SNA
3	BN61-01234A	CIS	HOLDER-INVERTER	MATISSE,ABS V0,BK07	SNA
3	BN64-00258A	CIS	PANEL-SPACER	MJ17AS/BS,ABS HB,BK07	SNA
3	6003-000117	SH/COV+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
3	6003-000276	SH/COV+C/F	SCREW-TAPTITE	BH,+,B,M3,L10,ZPC(YEL),SWCH10	SNA
3	6001-000559	SH/COV+PAN	SCREW-MACHINE	FH,+,M3,L6,ZPC(YEL),SWRCH18A,FP,-	SNA
3	BN96-01059A	CIS	ASSY MISC P-SHIELD COVER	MJ17AS/BS,SECC T1.0	SNA
4	BN63-01211A	CIS	SHIELD-COVER	MJ17AS,SECC,T0.8	SNA
4	BN63-01313A	CIS	COVER-INSULATOR	MJ17,19AS/BS,PET,T0.35	SA
2	BN92-00752R	-	ASSY LABEL	GG15AS	SNA
3	BN68-00614A	CIS	LABEL RATING-00	ALL,SS,PE,T0.05,90*45,BLK,POLYESTER,NO SILK	SA
2	BN92-00936S	-	ASSY P/MATERIAL	MJ17ASAS/*,W/W,PIVOT	SNA
3	0203-001102	P/M	TAPE-OPP MASKING	OPP-2,T0.05,W100,L400M,CLR	SNA
3	6902-000379	P/M	BAG AIR	HDPE,T0.2,L1800,W1000,TRP,,,PAPER	SNA
3	6902-000520	P/M	BAG PE	HDPE/NITRON(DOUBLE),T0.015/T0.5(DOUBLE),W700,L700,TRP,28 LANGUAGE,2-	SNA
3	6902-000604	P/M	BAG WRAPPING	LDPE,T0.02,W500,L10000,TRP,-,-	SNA
3	6902-000609	P/M	BAG ROLL	LDPE,T0.05,W2400,L1000,TRP,-,-	SNA
3	BH69-00457C	P/M	PACKING-PAD BOTTOM	CY15PO,FOAM,T3.0,1320,880	SNA

Level	Loc. No.	Code No.	Description	Specification	Remarks
3	BH69-40321A	P/M	PACKING-PAD	SW-4,W2155*L140,-,DEC,-,-,-,-	SNA
3	BN68-00129A	P/M	LABEL SHIPPING	-,LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,-	SNA
3	BN69-00123L	P/M	PAD PACKING	RJ15PO	SNA
3	BN69-00140T	P/M	PAD-PALLET COVER	SUN(LSA810),SW,900,3760,-,-,-,-,-	SNA
3	BN69-00617K	P/M	PALLET-PACKING	TS17AS,WOODEN,1310,910,120	SNA
3	BN69-00741A	P/M	CUSHION-PIVOT	MJ17AS,EPS M50	SNA
2	BN92-01052V	-	ASSY ACCESSORY	MJ17/19,ADC,UNITED STATES,PIVOT	SNA
3	BN96-01192V	UNIT/ACCESSORY	ASSY ACCESSORY	MJ17/19,ADC,UNITED STATES,PIVOT	SNA
4	0203-000214	ACCESSORY	TAPE-OPP MASKING	OPP/W50/CLR,T0.05,W50,L400000,	SNA
4	3903-000085	ACCESSORY	CBF-POWER CORD	DT,US,BP3/YES,IEC C13/C14,125/125V,10/10A,BLK,1830MM,-,SVT AWG18X3,UL/CSA,-,-	SA
4	6902-000110	ACCESSORY	BAG PE	LDPE,T0.05,L356,W240,TRP,28,2,PE MARK	SNA
4	AA68-40065B	ACCESSORY	CARD-01,REGISTRATION	,SEA,A5,ENG,A/P220,2P(SIDES),4	SNA
4	BH68-00261F	ACCESSORY	CARD WARRANTY-03	SyncMaster14-1,ADC,MOJO180G,E/F,USA	SNA
4	BH68-00261R	ACCESSORY	MANUAL-00	3 MONTHS CRM CARD,SECA,E/F,CANADA,MOJO120G,173,234	SNA
4	BH68-00344C	ACCESSORY	CARD WARRANTY-00	SECA W'TY & CRM CARD,SECA,MOJO100G,E/F,CANADA	SNA
4	BN59-00048A	ACCESSORY	S/W DRIVER-7.5	SYNCMASTER,PIVOT,SAMSUNG	SNA
4	BN96-01171A	ACCESSORY	ASSY MANUAL P-IB+QSG	710N,SyncMaster,W/W,27Lang,BN59-420A+BH68-376L	SNA
5	BH68-00376L	CIS	MANUAL-01	LCDQUICK SETUP GUIDE,SYNCMASTER,E/F/S/G/P/I..13LANGS,W/W,MOJO100G,298,420	SA
5	BN59-00420A	CIS	S/W DRIVER-00,IB	710T,W/W,SyncMaster,27 Lang	SNA
2	BN92-01057Y	-	ASSY BOX	MJ17ASAB,ADC,UNITED STATES,S/M711N,POIVOT,TCO99	SNA
3	BH68-00530E	BOX	LABEL BOX-01	ALL MODEL,MOJO 90G,90,95,WHT,3Y W/T+TCO99+PIVOT	SNA
3	BN69-00806E	BOX	BOX-00	S/M711N(MJ17AS) W/W,CB-SW4,YEL,A-1,L496*W395*H214,PIVOT	SNA
1	E29-MJ17ASAB	-	2	SEC,LTM170EU-L11 ZPD	-

7-3-1 MJ19AS* Main PCB Parts

Level	Loc. No.	Code No.	Description	Specification	Remarks
0	MJ19ASAB/XSH				
1	E10-MJ19ASAB/XSH	-	1	LTM190E1-L02	-
3	BN94-00516T	-	ASSY PCB MAIN-E10/E17	GS19VS/MJ19AS	SNA
4	0204-002420	CIS3	SOLVENT	1M-1000,C3H70H,96,-,-	SNA
4	0204-002426	CIS4	FLUX	DF-201TVS,MIX,0.820,FLUX13%,14KG,-	SNA
4	BN63-00995A	CIS8	GASKET	GY17MS,CONDUCTIVE FAB,4MM,15MM,100MM,GRAY,32K,71TSSK-15-4-100-13	SNA
4	3701-001219	CN101	CONNECTOR-DSUB	15P,3R,FEMALE,ANGLE,AUF	SA
4	3711-004712	CN600	CONNECTOR-HEADER	BOX,9P,1R,2mm,STRAIGHT,SN	SA
4	6003-000117	IP/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	6003-000117	M/PCB+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
4	BN97-00354K	MICOM	ASSY MICOM	GS17VS	SA
5	0903-001347	IC200	IC-MICROCONTROLLER	NT68F63GL,8Bit,PLCC,44P,653MIL,12MHz,ST,-,PLASTIC,5.000000V,-,0to+70C,256B,-,-	SNA
5	BN82-00114L	CIS	A/S MICOM	GS17VS	SNA
4	BN97-00358G	-	ASSY SMD	GS17VS/17VT/GS19VT	SNA
5	3301-000314	BD100	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD101	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD102	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD103	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD104	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD105	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	2703-001334	BD106	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	3301-000314	BD200	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	3301-000314	BD201	BEAD-SMD	120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm	SNA
5	2203-005005	C100	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C101	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C102	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C103	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C104	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C105	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000257	C106	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-005005	C110	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C112	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2203-005005	C114	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000236	C116	C-CER,CHIP	0.1NF,5%,50V,C0G,TP,1608	SA
5	2203-000998	C117	C-CER,CHIP	0.047NF,5%,50V,C0G,TP,1608	SA
5	2203-005005	C200	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005437	C201	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2203-005005	C203	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005437	C205	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	SA
5	2203-005065	C206	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-000257	C221	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000257	C222	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000189	C224	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	SA
5	2203-005005	C400	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001042	C401	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2203-005005	C402	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C403	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C404	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C405	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C406	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C407	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C408	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C409	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C410	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C411	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C412	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C413	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C414	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C415	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-000426	C416	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-000257	C417	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	SA
5	2203-000426	C418	C-CER,CHIP	0.018NF,5%,50V,C0G,TP,1608	SA
5	2203-005005	C419	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C420	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C421	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-000108	C422	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	SA
5	2203-005005	C423	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C424	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005065	C603	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2203-005005	C604	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005005	C605	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2203-005065	C606	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,-,1608	SA
5	2402-001042	C607	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2203-005005	C608	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001042	C609	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2203-005005	C610	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	SA
5	2402-001042	C611	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	2402-001042	C612	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	SA
5	3711-005543	CN200	CONNECTOR-HEADER	BOX,6P,1R,1.25mm,SMD-A,SnPb,IVR	SA
5	3711-005470	CN400	CONNECTOR-HEADER	BOX,30P,1R,1.25mm,SMD-A,Sn+Pb,IVR	SA
5	0403-001411	D100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0401-001056	D101	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D103	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0401-001056	D105	DIODE-SWITCHING	MMBD4148SE,100V,200MA,SOT-23,TP	SA
5	0402-001080	D600	DIODE-RECTIFIER	GF1G,400V,1A,DO,TP	SA
5	3301-001145	FT600	BEAD-SMD	60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm	SNA
5	0406-001061	IC106	DIODE-TVS	MMQA5V6T3,5.32/5.6/5.88V,24W,S	SA
5	1103-001023	IC201	IC-EEPROM	24C08,1Kx8,SOP,8P,5x4mm,2.5/5.5V,0to+70C	SA
5	1003-001674	IC400	IC-LCD CONTROLLER	SE7889,PQFP,100P,23.45x17.45mm,-,-,TR,PLASTIC,0.3-3.6V,0to+70C,-,-,-	SNA
5	0505-001772	IC600	FET-SILICON	FDS9933A,P,-20V,-3.8A,0.075OHM,2W,SO-8	SA
5	1203-003209	IC601	IC-DUAL VOLTAGE REGULATOR	APL5522,SOP,8P,4.9x3.9mm,PLASTIC,3.3V/2.5V,-,0to+150C,500mA/300mA,-,TP	SA
5	BN41-00412A	MP1.0	PCB MAIN	MJ/GS,SILVER THROGH HOLE,2L,1.0,1.6T,118*78.2,4A	SNA
5	0501-002080	Q601	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	SA
5	2007-000821	R106	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R107	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R108	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R109	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2007-001164	R118	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2703-001334	R119	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2007-001164	R120	R-CHIP	75ohm,1%,1/10W,TP,1608	SA
5	2703-001334	R121	INDUCTOR-SMD	1.5uH,10%,2012	SA
5	2007-000084	R122	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R123	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R124	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000113	R134	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R135	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R136	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R137	R-CHIP	33ohm,5%,1/10W,TP,1608	SA

Level	Loc. No.	Code No.	Description	Specification	Remarks
5	2007-000113	R138	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000113	R139	R-CHIP	33ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R200	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R202	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R203	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R204	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R205	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R206	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R207	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R208	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R209	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R210	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R211	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R212	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R214	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R216	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R217	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000084	R219	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000077	R221	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000080	R222	R-CHIP	2Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R223	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R224	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R225	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R226	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R227	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R228	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R229	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R230	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R231	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R232	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000083	R233	R-CHIP	3Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R234	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R235	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R236	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R237	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000084	R238	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R239	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000074	R240	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000078	R241	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R242	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000077	R243	R-CHIP	470ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R244	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R247	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R400	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R401	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000078	R402	R-CHIP	1Kohm,5%,1/10W,TP,1608	SA
5	2007-000821	R403	R-CHIP	390ohm,1%,1/10W,TP,1608	SA
5	2007-000070	R502	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000070	R503	R-CHIP	0ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R600	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000090	R602	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2007-000074	R603	R-CHIP	100ohm,5%,1/10W,TP,1608	SA
5	2007-000090	R604	R-CHIP	10Kohm,5%,1/10W,TP,1608	SA
5	2801-003773	X400	CRYSTAL-SMD	12MHZ,30PPM,28-AAN,20PF,50OHM,TP	SA
5	0403-001411	ZD100	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD101	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD102	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD103	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD104	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA
5	0403-001411	ZD200	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	SA

7-3-2 MJ19AS* Others

Level	Loc. No.	Code No.	Description	Specification	Remarks
2	BN90-00329T	-	ASSY STAND	MJ17ASAB/*,BK07,PIVOT	SNA
3	BN96-01193B	STD	ASSY STAND P-PIVOT	Matisse17/19,ABS HB,BK07	SNA
2	BN90-00641D	-	ASSY COVER REAR	MJ19AS	SNA
3	6003-000337	C/R+STD	SCREW-TAPTITE	BH,+,S,M4,L10,ZPC(BLK),SWRCH18	SNA
3	BN96-01055B	C/R	ASSY COVER P-REAR	MJ19AS,ABS HB,BK07	SNA
4	BN61-00377A	C/R	BRACKET-VESA	GOYA19(193V),SECC,T1.0	SNA
4	BN63-01215B	C/R	COVER-REAR	MJ19AS,ABS HB,BK07,NONE,1.5	-
2	BN90-00642Q	-	ASSY COVER FRONT	MJ19ASSB/*,BK07,S/M910N	SNA
3	6003-001086	C/F+C/R	SCREW-TAPTITE	BH,+,B,M3,L12,ZPC(BLK),SWRCH18A	SNA
3	BN96-01057F	C/F	ASSY COVER P-FRONT	MJ19AS,ABS HB,BK07	SNA
4	BN61-01243A	C/F	HOLDER-PCB	MJ17,ABS HB,BK07	SNA
4	BN63-01214C	C/F	COVER-FRONT	MJ19AS/BS,ABS HB,BK07	-
4	BN64-00288C	C/F	KNOB-FUNCTION	MJ15/17/19,ABS,PC,BK07	SNA
4	BN67-00120A	C/F	LENS-LED	MATISSE,ACRYL,CLEAR	SA
4	BN96-01111A	C/F	ASSY BOARD P-FUNCTION	MATISSE,FUNCTION	SNA
2	BN91-00403C	-	ASSY LCD-E10	MO19ES	SNA
3	BN07-00128A	LCD	LCD	LTM190E1-L02,Goya,16.1M,404.2*330*20,16.2M,63,0.294*0.294,0~50,5V,PVa	SA
2	BN91-00784T	-	ASSY CHASSIS	MJ19AS	SA
3	BN44-00113A	CIS	IP BOARD	MATISSE,1.5mA~3.0mA,6.1mA~7.3mA,48kHz,4,AC90V~264VAC,5Vdc /13Vdc,0°…°≠ 32°…,50/	SNA
3	BN61-01103A	CIS	BRACKET-PCB	MJ19AS,SECC,T1.0	SNA
2	BN91-00785C	-	ASSY SHIELD	MJ19BS/AS	SNA
3	0203-001598	CIS	TAPE-FILAMENT	#8915,0.15,12,55000,CLR	SNA
3	BN39-00244A	CIS	CBF SIGNAL	BU15A0(T541A),15P/15P,20276-N,1830MM,UL20276,BLACK,D-SUB/MALE ,DET. TYPE	SA
3	BN39-00506A	CIS	LEAD CONNECTOR	GS17/19*/MJ19,UL1571#30,UL/CSA,30P,160mm,#30,12507HS-30L,1615A-30,BK,SJ03-01-293	SNA
3	BN39-00523C	CIS	LEAD CONNECTOR	MJ17/19*,UL1061#28,UL/CSA,6P/5P,90mm,#28,12507HS-06L,12505HS-05,BK,AT TAPE	SNA
3	BN61-01234A	CIS	HOLDER-INVERTER	MATISSE,ABS V0,BK07	SNA
3	6003-000117	SH/COV+BRKT/PCB	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
3	6003-000276	SH/COV+C/F	SCREW-TAPTITE	BH,+,B,M3,L10,ZPC(YEL),SWCH10	SNA
3	6001-000364	SH/COV+PAN	SCREW-MACHINE	FH,+,M3,L8,ZPC(YEL),SWRCH18A,-,-	SNA
3	BN96-01060A	CIS	ASSY MISC P-SHIELD COVER	MJ19AS/BS,SECC T1.0	SNA
4	BN63-01217A	CIS	SHIELD-COVER	MJ19AS,SECC,T1.0	SNA
4	BN63-01313A	CIS	COVER-INSULATOR	MJ17,19AS/BS,PET,T0.35	SNA
2	BN92-00936T	-	ASSY P/MATERIAL	MJ19AS/BS	SNA
3	0203-001102	P/M	TAPE-OPP MASKING	OPP-2,T0.05,W100,L400M,CLR	SNA
3	6902-000379	P/M	BAG AIR	HDPE,T0.2,L1800,W1000,TRP,,,PAPER	SNA
3	6902-000520	P/M	BAG PE	HDPE/NITRON(DOUBLE),T0.015/T0.5(DOUBLE),W700,L700,TRP,28 LANGUAGE,2-	SNA
3	6902-000604	P/M	BAG WRAPPING	LDPE,T0.02,W500,L10000,TRP,-,-	SNA
3	6902-000609	P/M	BAG ROLL	LDPE,T0.05,W2400,L1000,TRP,-,-	SNA
3	BH69-00457B	P/M	PACKING-PAD BOTTOM	GH15,FOAM,T3.0,930,1000	SNA
3	BH69-40303L	P/M	PACKING-PALLET	WOOD,1020*994*130,-,ML15NS	SNA
3	BH69-40321A	P/M	PACKING-PAD	SW-4,W2155*L140,-,DEC,-,-,-,-,	SNA
3	BN68-00129A	P/M	LABEL SHIPPING	-,LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,-	SNA
3	BN69-00140P	P/M	PAD-PALLET COVER	SUN15,SW,1000*3780,1310,-,-,-,-,-	SNA
3	BN69-00743A	P/M	CUSHION-PIVOT	MJ19AS,EPS M50	SNA
2	BN92-00946H	-	ASSY LABEL	GY19VSSS/XSH,SEHK,HONG KONG	SNA
3	0203-001598	CIS	TAPE-FILAMENT	#8915,0.15,12,55000,CLR	SNA
3	BN68-00021F	CIS	LABEL	PROTECTOR W/W19,PE,-,410,330,-,-,PE CLEAR,-,-	SNA
3	BN68-00614A	CIS	LABEL RATING-00	ALL,SS,PE,T0.05,90*45,BLK,POLYESTER,NO SILK	SNA
2	BN92-01052C	-	ASSY ACCESSORY	MJ17ASAS/XSS,SAPL,SINGAPORE,PIVOT	SNA
3	BN96-01192C	UNIT/ACCESSORY	ASSY ACCESSORY	MJ17ASAS/XSS,SAPL,SINGAPORE,PIVOT	SNA
4	0203-000214	ACCESSORY	TAPE-OPP MASKING	OPP/W50/CLR,T0.05,W50,L400000,	SNA
4	3903-000067	ACCESSORY	CBF-POWER CORD	DT,GB,GP3/YES(A),(IEC C13/C14),250/250V,10/10A,BLK,1830MM,-,H05VV-F 3X1.0MM^2,A	SA
4	6902-000110	ACCESSORY	BAG PE	LDPE,T0.05,L356,W240,TRP,28,2,PE MARK	SNA
4	BN59-00048A	ACCESSORY	S/W DRIVER-7.5	SYNCMASTER,PIVOT,SAMSUNG	SNA
4	BN96-01171A	ACCESSORY	ASSY MANUAL P-IB+QSG	710N,SyncMaster,W/W,27Lang,BN59-420A+BH68-376L	SNA
5	BH68-00376L	CIS	MANUAL-01	LCDQUICK SETUP GUIDE,SYNCMASTER,E/F/S/G/P/I..13LANGS,W/W,MOJO100G,298,420	SA
5	BN59-00420A	CIS	S/W DRIVER-00,IB	710T,W/W,SyncMaster,27 Lang	SNA
2	BN92-01059D	-	ASSY BOX	MJ19ASAS/*,W/W,PIVOT	SNA
3	BH68-00328Q	BOX	LABEL BOX	LABEL-BARCODE,W/W,CE+P+TCO99,ART-PAPER100G,70*60,90*95,WHT	SNA
3	BN69-00805A	BOX	BOX-00	S/M910N(MJ19AS) W/W,CB-SW4,YEL,A-1,L523*W431*H214,PIVOT	-
1	E17-MJ19ASAB/XSH	-	2	LTM190E1-L02(ZPD)	-

7-4 MJ15BS*/MJ17BS*/MJ19BS* Different Circuit Part List

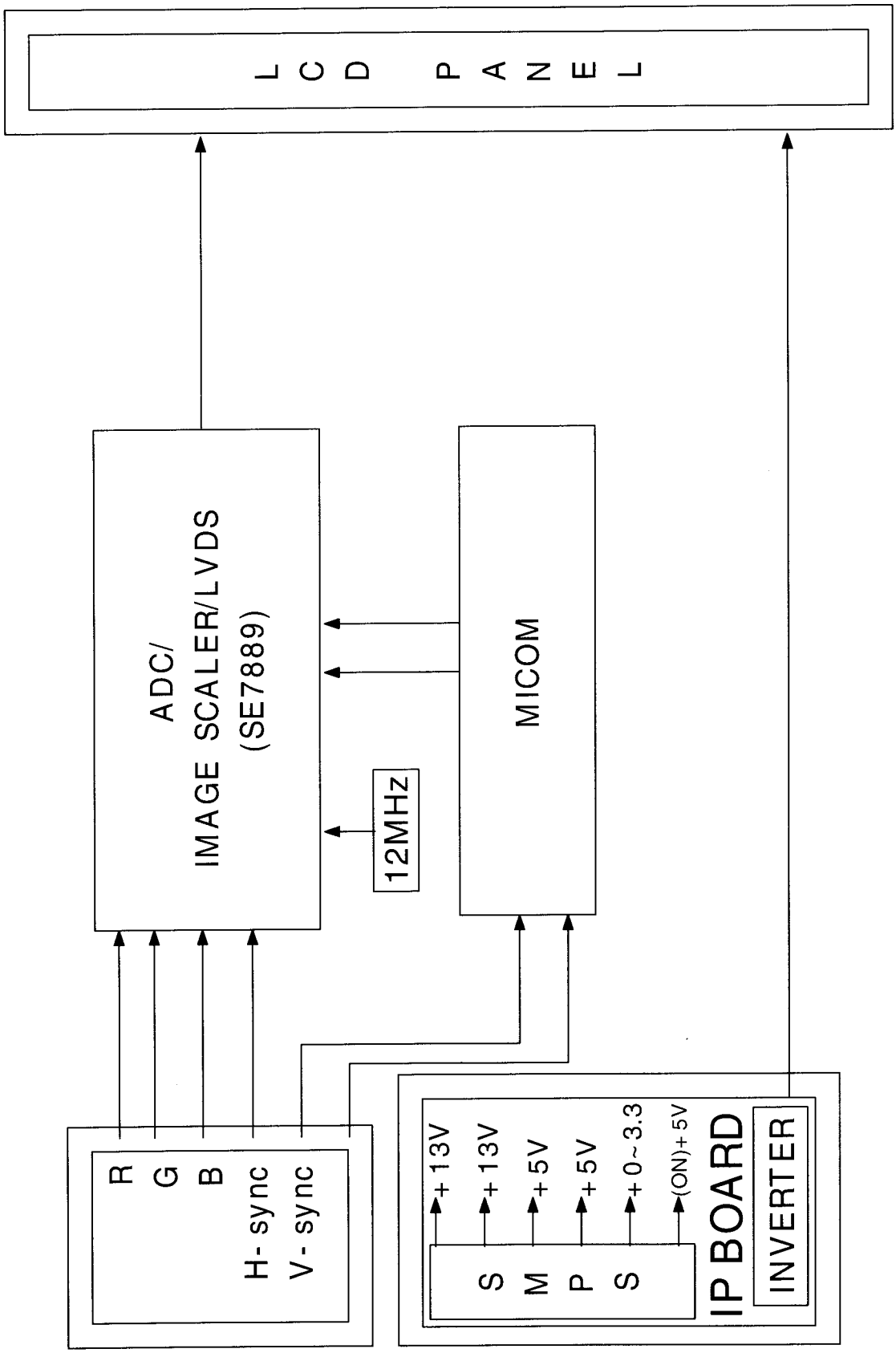
Loc. No	Code	Description
C111	2203-001402	C-CERAMIC,CHIP
C113	2203-001402	C-CERAMIC,CHIP
C119	2203-001402	C-CERAMIC,CHIP
C120	2203-001402	C-CERAMIC,CHIP
C123	2203-001402	C-CERAMIC,CHIP
C125	2203-001402	C-CERAMIC,CHIP
C126	2203-005005	C-CERAMIC,CHIP
C127	2203-001402	C-CERAMIC,CHIP
C128	2203-001402	C-CERAMIC,CHIP
CN102	3701-001173	CONNECTOR-DSUB
D102	0401-001056	DIODE-SWITCHING
D104	0401-001056	DIODE-SWITCHING
D106	0401-001056	DIODE-SWITCHING
D107	0401-001056	DIODE-SWITCHING
D108	0401-001056	DIODE-SWITCHING
D109	0403-001411	DIODE-ZENER
D110	0403-001411	DIODE-ZENER
D111	0401-001056	DIODE-SWITCHING
D112	0401-001056	DIODE-SWITCHING
D113	0401-001056	DIODE-SWITCHING
D114	0403-001411	DIODE-ZENER
D115	0403-001411	DIODE-ZENER
IC101	1103-000129	IC-EEPROM
IC107	0406-001061	DIODE-TVS
Q100	0501-002080	TR-SMALL SIGNAL
R110	2007-000071	R-CHIP
R111	2007-000071	R-CHIP
R112	2007-000071	R-CHIP
R113	2007-000071	R-CHIP
R114	2007-000071	R-CHIP
R115	2007-000071	R-CHIP
R116	2007-000071	R-CHIP
R117	2007-000071	R-CHIP
R125	2007-000078	R-CHIP
R126	2007-000092	R-CHIP
R127	2007-000092	R-CHIP
R128	2007-000074	R-CHIP
R129	2007-000074	R-CHIP
R130	2007-001002	R-CHIP
R131	2007-000090	R-CHIP
R132	2007-000074	R-CHIP

7-5 MJ15AS*/MJ17AS*/MJ19AS*/MJ15BS*/MJ17BS*/MJ19BS* Different Mechanical Part List

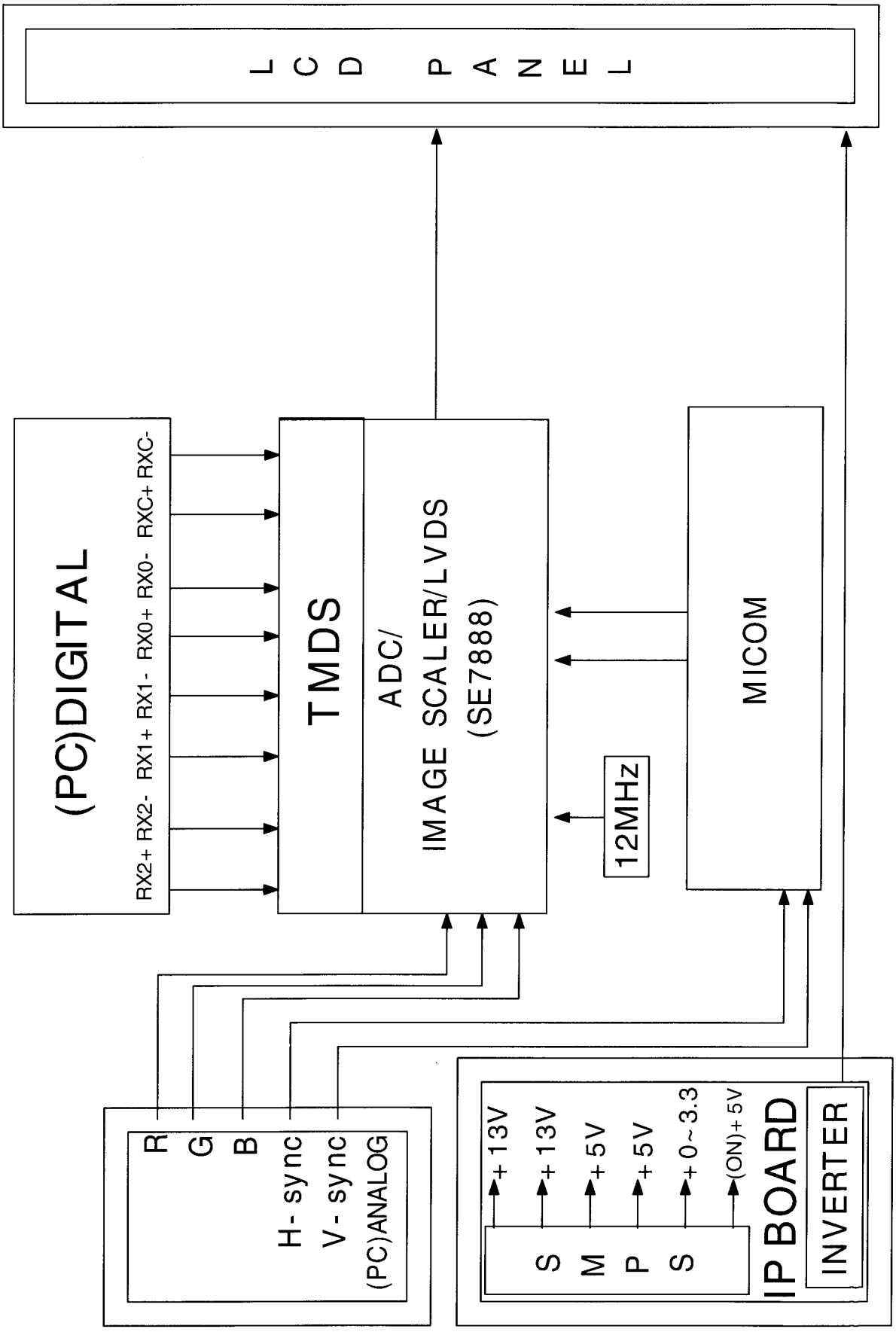
*** Refer to Chapter 6 Exploded View and Parts List for All Models Different Mechanically Part List.**

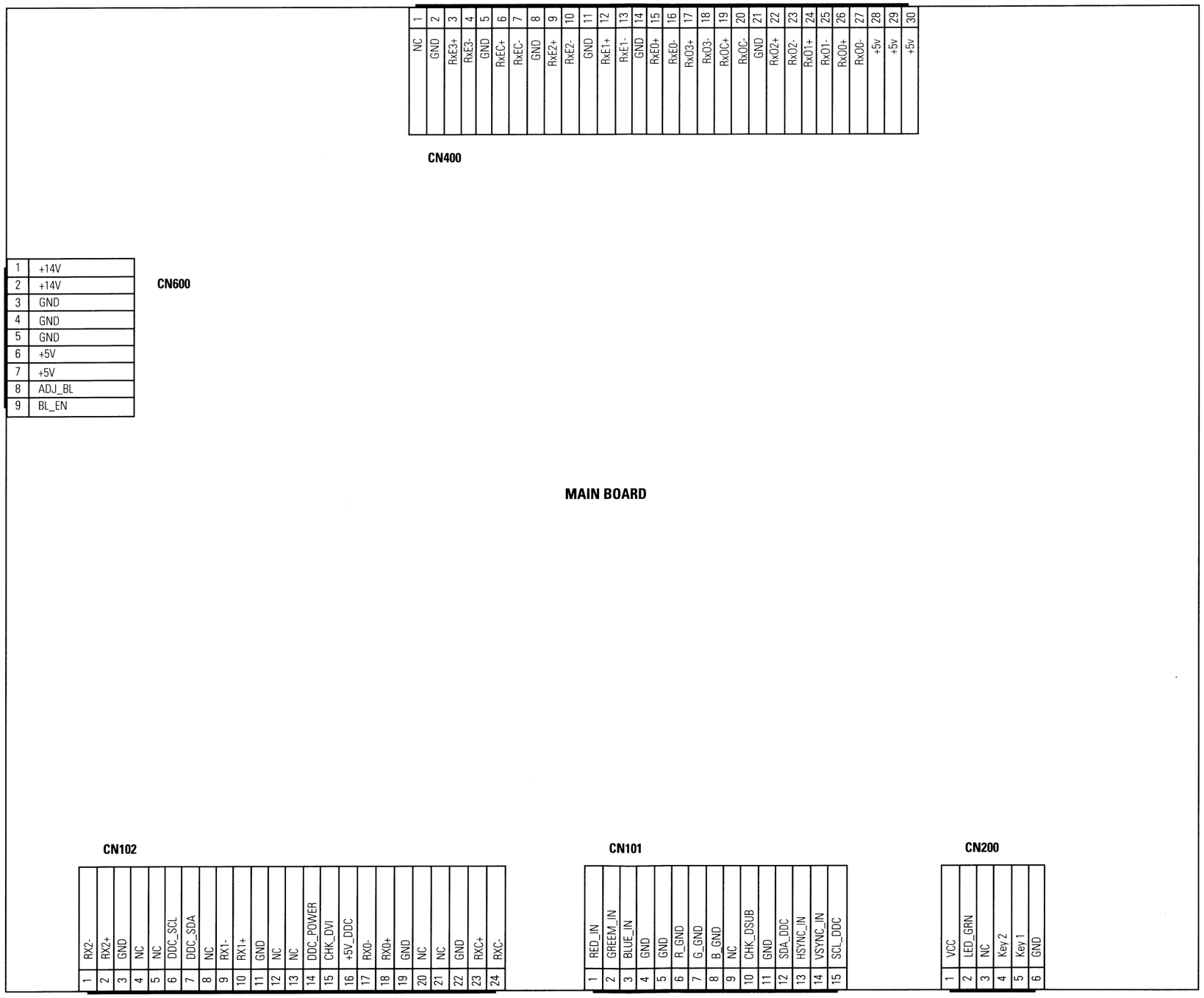
8 Block Diagram

8-1 MJ15AS*/MJ17AS*/MJ19AS* ANALOG Block Diagram



8-2 MJ15BS*/MJ17BS*/MJ19BS* DIGITAL Block Diagram

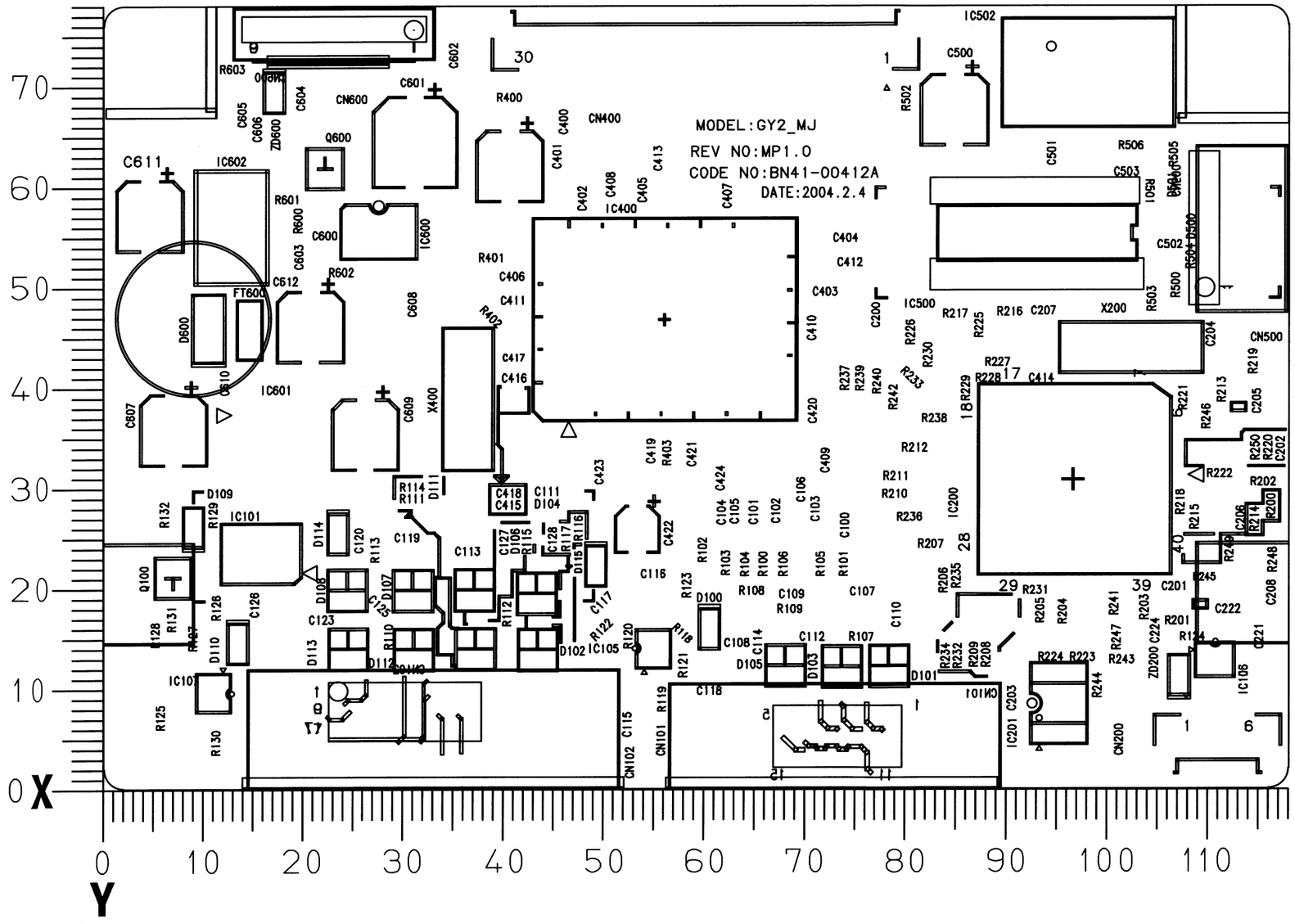



CN400
1 NC
2 GND
3 RxE3+
4 RxE3-
5 GND
6 RxEC+
7 RxEC-
8 GND
9 RxE2+
10 RxE2-
11 GND
12 RxE1+
13 RxE1-
14 GND
15 RxE0+
16 RxE0-
17 RxO3+
18 RxO3-
19 RxOC+
20 RxOC-
21 GND
22 RxO2+
23 RxO2-
24 RxO1+
25 RxO1-
26 RxO0+
27 RxO0-
28 +5v
29 +5v
30 +5v
CN600
1 +14V
2 +14V
3 GND
4 GND
5 GND
6 +5V
7 +5V
8 ADJ_BL
9 BL_EN
MAIN BOARD
CN102
1 RX2-
2 RX2+
3 GND
4 NC
5 NC
6 DDC_SCL
7 DDC_SDA
8 NC
9 RX1-
10 RX1+
11 GND
12 NC
13 NC
14 DDC_POWER
15 CHK_DVI
16 +5V_DDC
17 RXO-
18 RXO+
19 GND
20 NC
21 NC
22 GND
23 RXC+
24 RXC-
CN101
1 RED_IN
2 GREEM_IN
3 BLUE_IN
4 GND
5 GND
6 R_GND
7 G_GND
8 B_GND
9 NC
10 CHK_DSUB
11 GND
12 SDA_DDC
13 HSYNC_IN
14 VSYNC_IN
15 SCL_DDC
CN200
1 VCC
2 LED_GRN
3 NC
4 Key 2
5 Key 1
6 GND

Memo

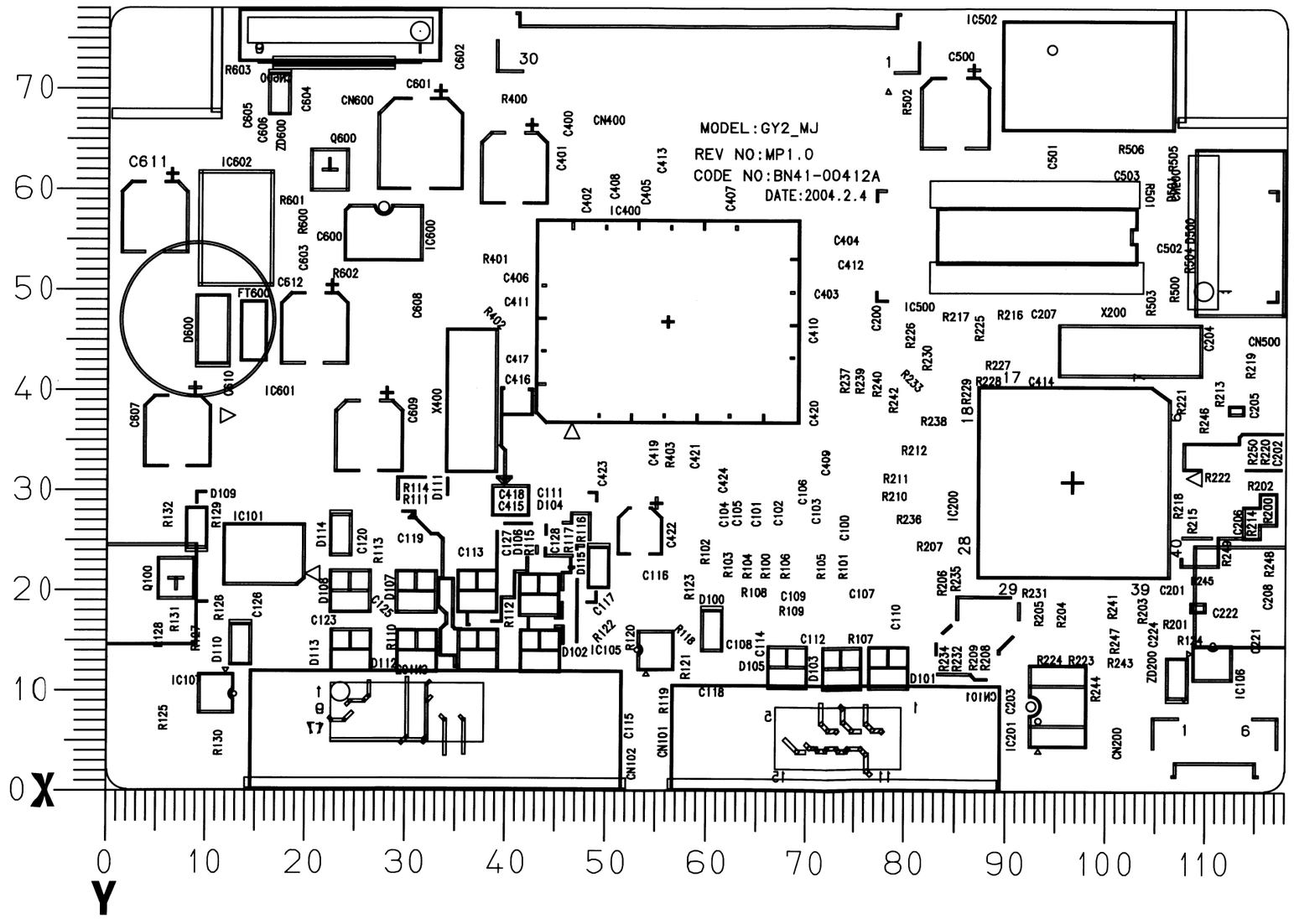
10 PCB Layout

10-1 MJ15AS* ANALOG PCB



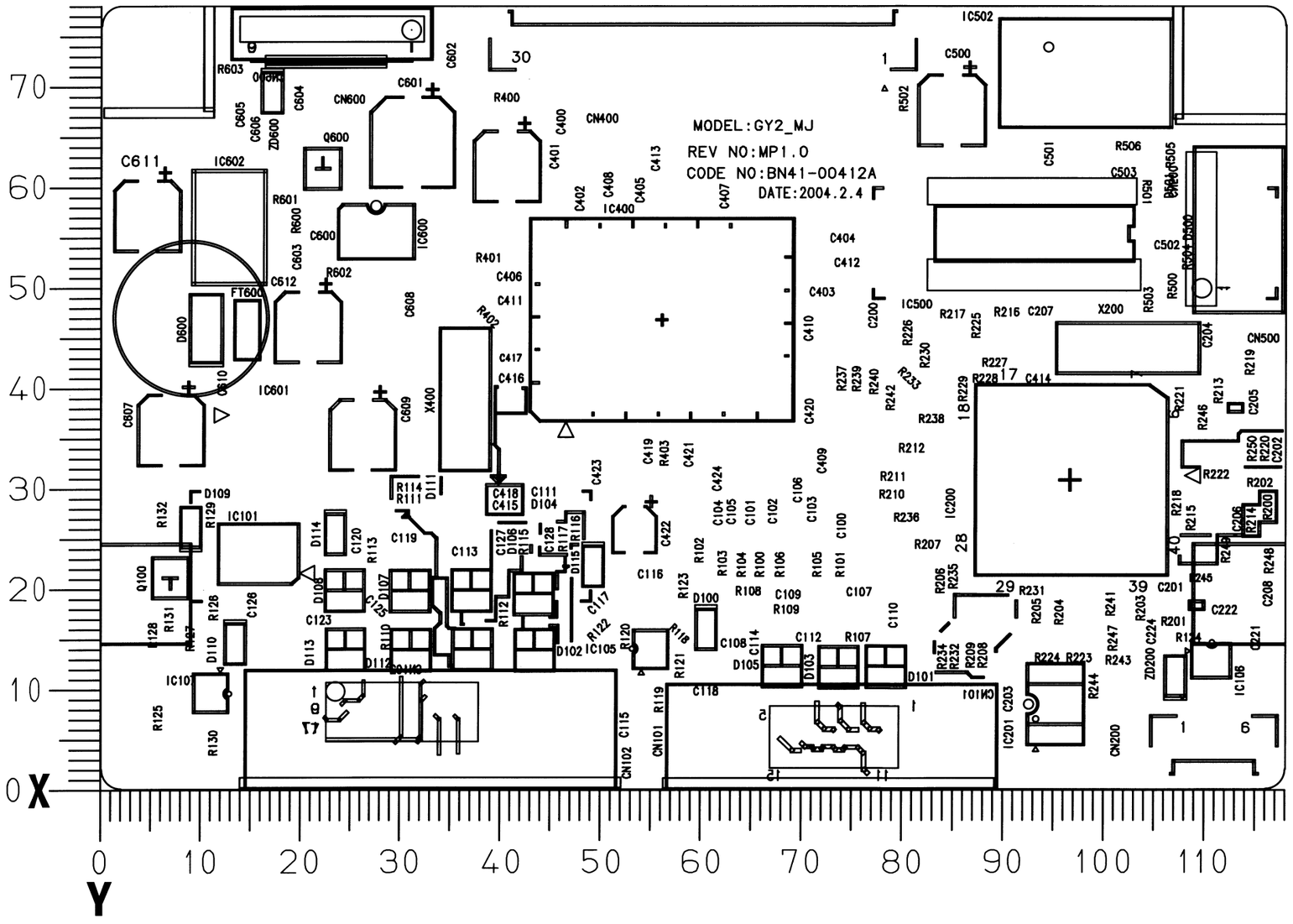
Loc. No.	Description	X	Y
DIODE			
D100	DIODE-ZENER	60.5	16.0
D101	DIODE-SWITCHING	78.3	12.3
D103	DIODE-SWITCHING	73.6	12.2
D105	DIODE-SWITCHING	68.0	12.4
D600	DIODE-RECTIFIER	10.5	46.1
ZD200	DIODE-ZENER	107.1	11.3
ZD600	DIODE-ZENER	17.1	69.6
IC			
IC105	DIODE-TVS	55.0	14.0
IC106	DIODE-TVS	110.7	12.9
IC200	IC-MICROCONTROLLER	96.6	30.9
IC201	IC-EEPROM	95.2	8.5
IC400	IC-LCD CONTROLLER	56.0	46.9
IC600	FET-SILICON	27.5	55.8
IC601	IC-DUAL VOLTAGE REGULATOR	17.4	35.5
IC602	IC-VOLTAGE REGULATOR	12.8	56.1

10-2 MJ15BS* DIGITAL PCB



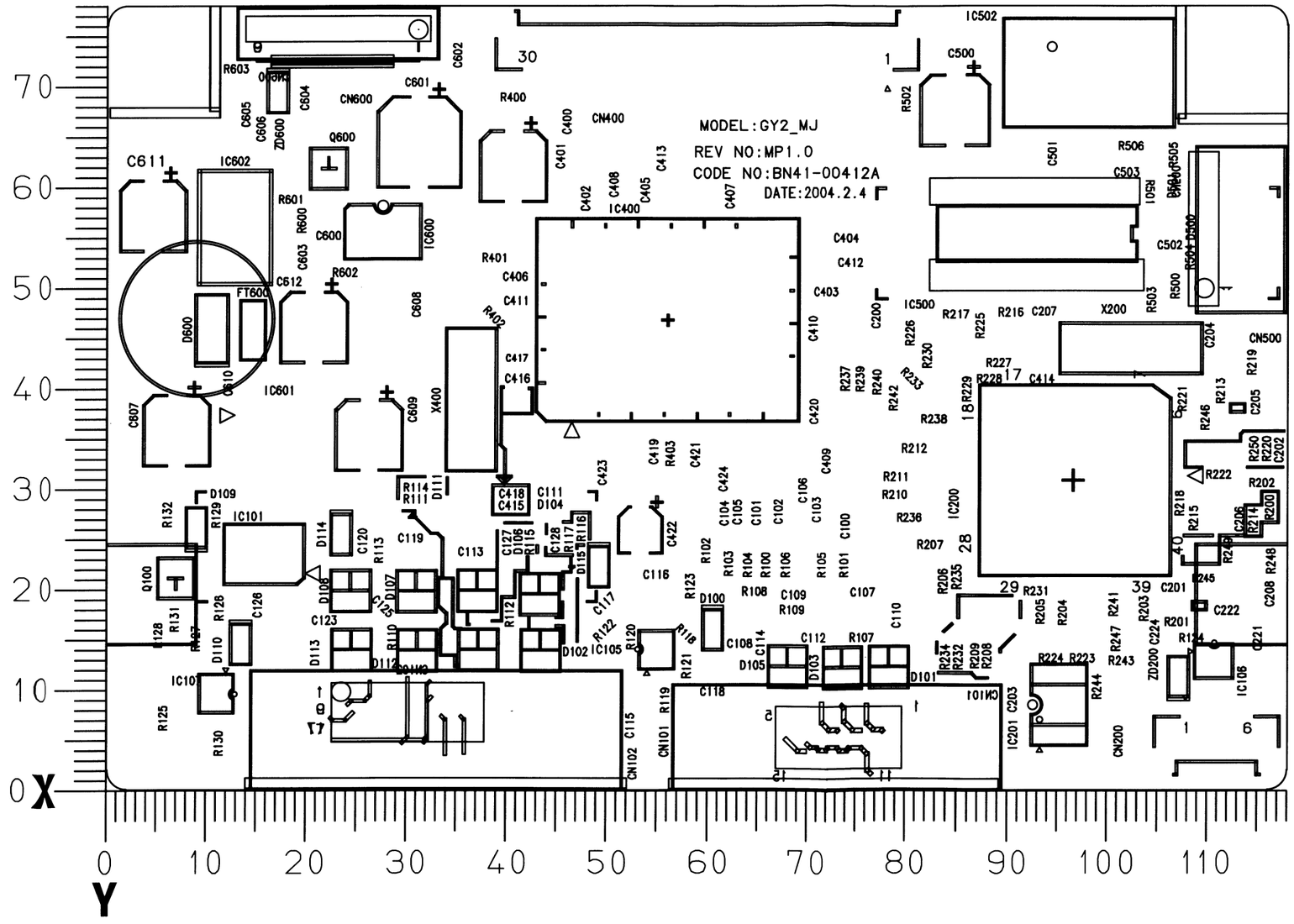
Loc. No.	Description	X	Y
DIODE			
D100	DIODE-ZENER	60.5	16.0
D101	DIODE-SWITCHING	78.3	12.3
D102	DIODE-SWITCHING	43.4	14.0
D103	DIODE-SWITCHING	73.6	12.2
D104	DIODE-SWITCHING	43.3	19.6
D105	DIODE-SWITCHING	68.0	12.4
D106	DIODE-SWITCHING	37.1	19.9
D107	DIODE-SWITCHING	31.0	19.9
D108	DIODE-SWITCHING	24.4	19.9
D109	DIODE-ZENER	9.0	26.2
D110	DIODE-ZENER	13.5	14.6
D111	DIODE-SWITCHING	37.2	14.0
D112	DIODE-SWITCHING	31.1	14.0
D113	DIODE-SWITCHING	24.5	14.0
D114	DIODE-ZENER	23.5	25.5
D115	DIODE-ZENER	49.2	22.3
D600	DIODE-RECTIFIER	10.5	46.1
ZD200	DIODE-ZENER	107.1	11.3
ZD600	DIODE-ZENER	17.1	69.6
IC			
IC101	IC-EEPROM	15.8	23.6
IC105	DIODE-TVS	55.0	14.0
IC106	DIODE-TVS	110.7	12.9
IC107	DIODE-TVS	11.0	9.6
IC200	IC-MICROCONTROLLER	96.6	30.9
IC201	IC-EEPROM	95.2	8.5
IC400	IC-LCD CONTROLLER	56.0	46.9
IC600	FET-SILICON	27.5	55.8
IC601	IC-DUAL VOLTAGE REGULATOR	17.4	35.5
IC602	IC-VOLTAGE REGULATOR	12.8	56.1
TRANSISTOR			
Q100	TR-SMALL SIGNAL	7.0	21.1

10-3 MJ17AS*/MJ19AS* ANALOG PCB



Loc. No.	Description	X	Y
DIODE			
D100	DIODE-ZENER	60.5	16.0
D101	DIODE-SWITCHING	78.3	12.3
D103	DIODE-SWITCHING	73.6	12.2
D105	DIODE-SWITCHING	68.0	12.4
D600	DIODE-RECTIFIER	10.5	46.1
ZD200	DIODE-ZENER	107.1	11.3
ZD600	DIODE-ZENER	17.1	69.6
IC			
IC105	DIODE-TVS	55.0	14.0
IC106	DIODE-TVS	110.7	12.9
IC200	IC-MICROCONTROLLER	96.6	30.9
IC201	IC-EEPROM	95.2	8.5
IC400	IC-LCD CONTROLLER	56.0	46.9
IC600	FET-SILICON	27.5	55.8
IC601	IC-DUAL VOLTAGE REGULATOR	17.4	35.5

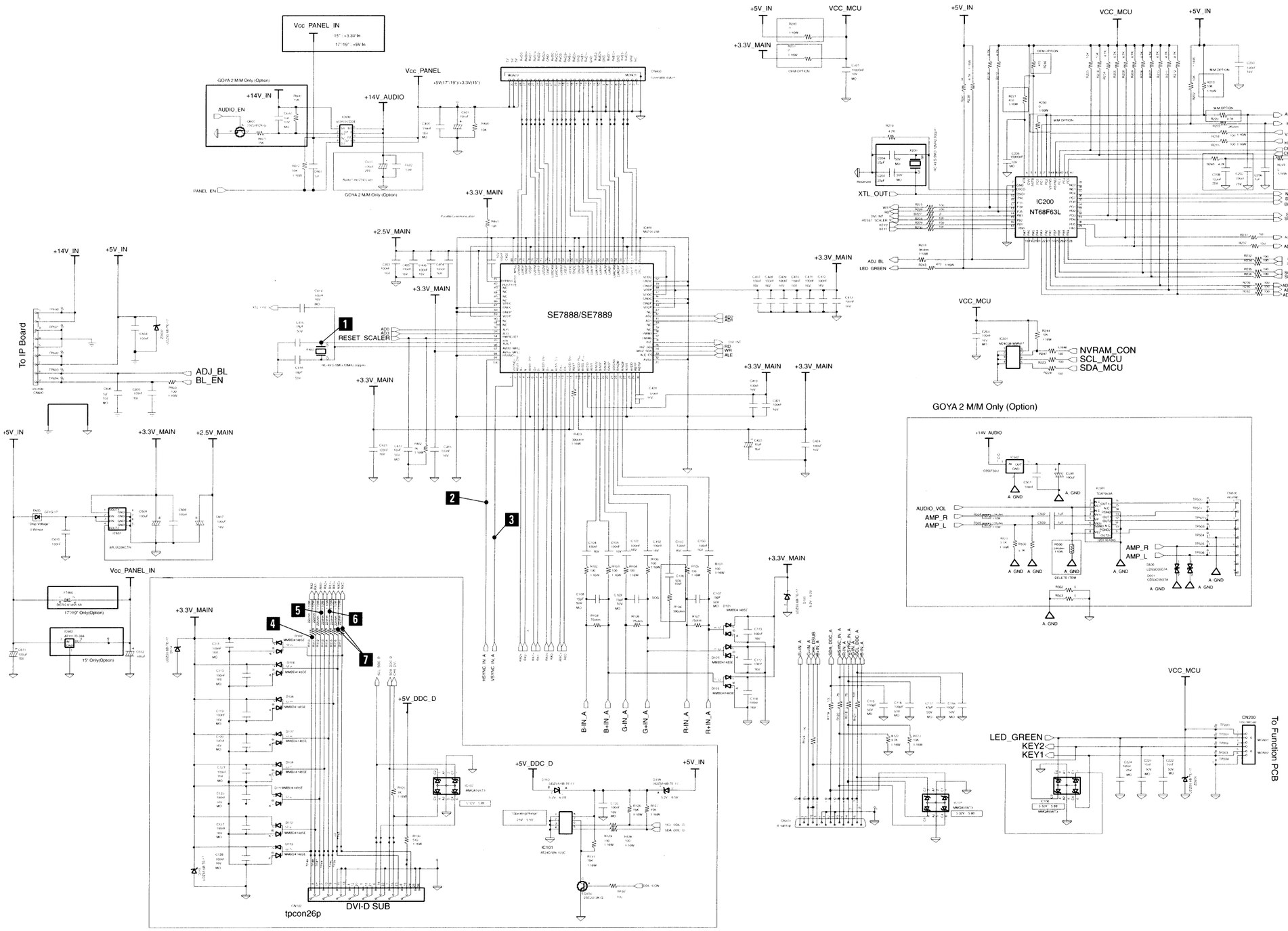
10-4 MJ17BS*/MJ19BS* DIGITAL PCB

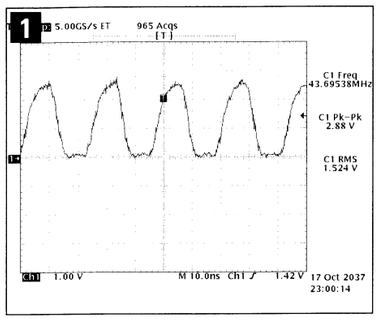


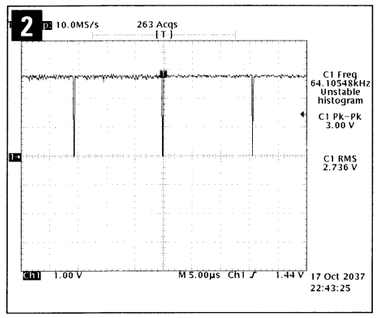
Loc. No.	Description	X	Y
DIODE			
D100	DIODE-ZENER	60.5	16.0
D101	DIODE-SWITCHING	78.3	12.3
D102	DIODE-SWITCHING	43.4	14.0
D103	DIODE-SWITCHING	73.6	12.2
D104	DIODE-SWITCHING	43.3	19.6
D105	DIODE-SWITCHING	68.0	12.4
D106	DIODE-SWITCHING	37.1	19.9
D107	DIODE-SWITCHING	31.0	19.9
D108	DIODE-SWITCHING	24.4	19.9
D109	DIODE-ZENER	9.0	26.2
D110	DIODE-ZENER	13.5	14.6
D111	DIODE-SWITCHING	37.2	14.0
D112	DIODE-SWITCHING	31.1	14.0
D113	DIODE-SWITCHING	24.5	14.0
D114	DIODE-ZENER	23.5	25.5
D115	DIODE-ZENER	49.2	22.3
D600	DIODE-RECTIFIER	10.5	46.1
ZD200	DIODE-ZENER	107.1	11.3
ZD600	DIODE-ZENER	17.1	69.6
IC			
IC101	IC-EEPROM	15.8	23.6
IC105	DIODE-TVS	55.0	14.0
IC106	DIODE-TVS	110.7	12.9
IC107	DIODE-TVS	11.0	9.6
IC200	IC-MICROCONTROLLER	96.6	30.9
IC201	IC-EEPROM	95.2	8.5
IC400	IC-LCD CONTROLLER	56.0	46.9
IC600	FET-SILICON	27.5	55.8
IC601	IC-DUAL VOLTAGE REGULATOR	17.4	35.5
TRANSISTOR			
Q100	TR-SMALL SIGNAL	7.0	21.1

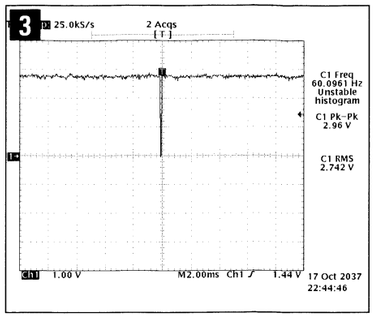
11 Schematic Diagrams

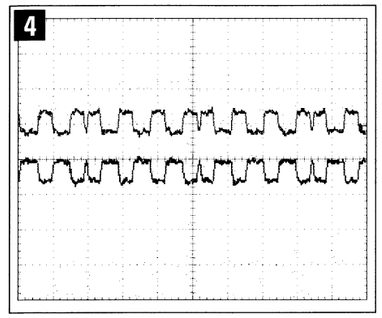
❉ This Document can not be used without Samsung's authorization.

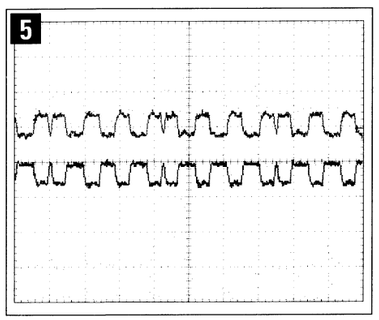


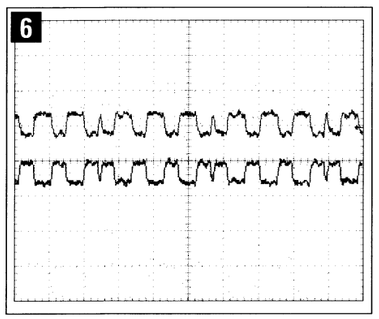

1
C1 Freq
43.69538MHz
C1 Pk-Pk
2.88 V
C1 RMS
1.524 V
Ch1 1.00 V
M 10.0ns Ch1 1.42 V
17 Oct 2037
23:00:14

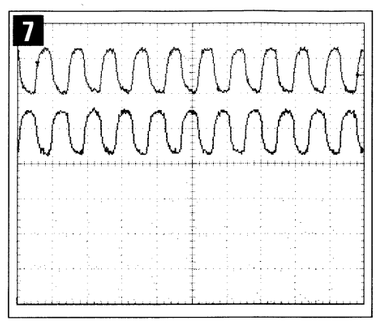

2
10.0MS/s
263 Acqs
C1 Freq
64.10548kHz
Unstable
histogram
C1 Pk-Pk
3.00 V
C1 RMS
2.736 V
Ch1 1.00 V
M 5.00µs Ch1 1.44 V
17 Oct 2037
22:43:25


3
25.0kS/s
2 Acqs
C1 Freq
60.0961 Hz
Unstable
histogram
C1 Pk-Pk
2.96 V
C1 RMS
2.742 V
Ch1 1.00 V
M2.00ms Ch1 1.44 V
17 Oct 2037
22:44:46


4


5


6


7

12 Panel Description

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	CODE	Remarks
SEC	LT140X1-002	BN07-00004A	SA	BN68-00239H	
SEC	LT150XS-L01	BN07-00009A	SB		
SEC	LT150XS-L01-B	BN07-00022A	SC		
SEC	LTM150XS-L02	BN07-00005A	SD		
SEC	LT181E2-132	BN07-00001A	SE		
SEC	LT150XS-T01	BN07-00010A	SF		
SEC	LTM181E3-132	BN07-00019A	SG		
SEC	LT170E2-131	BN07-10001D	SH		
SEC	LT181E2-131	BN07-10001E	SJ		
SEC	LTM170E4-L01	BN07-00018A	SK		
SEC	LTM240W1-L01	BN07-00015A	SL		
SEC	LTM213U3-L01	BN07-00016A	SM		
SEC	LTM150XH-L01	BN07-00026A	SN		
SEC	LTM150XH-L03	BN07-00027A	SP		
SEC	LTM150XS-L01	BN07-00032A	SQ		DELL(ZPD)
SEC	LTM181E4-L01	BN07-00034A	SR		PVA
SEC	LTM170EH-L01	BN07-00036A	SS		TN
SEC	LTM170E5-L01	BN07-00037A	SU		PVA
SEC	LTM150XH-L11	BN07-00041A	SV		
SEC	LTM213U4-L01	BN07-00039A	SW		PVA
SEC	LTM150XH-L01(ZPD)	BN07-00045A	SX		ZPD
SEC	LTM150XH-L04	BN07-00046A	SY		PANEL
SEC	LTM170W1-L01	BN07-00047A	SZ		TV PANEL
SEC	LTM150XH-L06	BN07-00053A	EA		TV PANEL/450cd _ Sony& EOS TV panel
SEC	LTM153W1-L01	BN07-00054A	EB		NIKE MODEL
SEC	LTM170EH-L05	BN07-00055A	EC		17" EH-L05 panel EOS proj.
SEC	LTM170E5-L03	BN07-00056A	ED		Dell 1702FP pro. E4. EH Compatible
SEC	LTM190E1-L01	BN07-00057A	EE		DELL 1900 FP
SEC	LTM181E5-L01	BN07-00061A	EF		18" narrow bezel GH18PS
SEC	LTM150XP-L01	BN07-00065A	EG		AMLCD PVA PANEL
SEC	LTM240W1-L02	BN07-00062A	EH		15" Wide tv panel
SEC	LTM170EU-L01	BN07-00071A	EJ		Slim design, TN
SEC	LTM170E5-L04	BN07-00072A	EK		E5-L04 6 bits FRC... for IBM
SEC	LTA220W1-L01	BN07-00074A	EL		22" TV PANEL
SEC	LTM170E6-L02	BN07-00075A	EM		AMLCD Narrow & slim design 17" PVA mode
SEC	LTM170W1-L01	BN07-00082A	EN		LTM170W1-L01 ZPD panel
SEC	LTM170EH-L01	BN07-00080A	EP		LTM170EH-L01 ZPD panel
SEC	LTM170E5-L01	BN07-00081A	EQ		LTM170E5-L01 ZPD panel
SEC	LTM170EH-L05	BN07-00083A	ER		LTM170EH-L05 ZPD panel
SEC	LTM170E5-L03	BN07-00084A	ES		LTM170E5-L03 ZPD panel
SEC	LTM170EU-L01	BN07-00085A	ET		LTM170EU-L01 ZPD panel
SEC	LTM170E5-L04	BN07-00086A	EU		LTM170E5-L04 ZPD panel
SEC	LTM170E6-L02	BN07-00087A	EV		LTM170E6-L02 ZPD panel
SEC	LTM150XH-L06	BN07-00091A	EW		LCD TV
SEC	LTM153W1-L01	BN07-00092A	EX		AMLCD WIDE 15",9/10
SEC	LTM170W1-L01	BN07-00100A	EY		code
SEC	LTM170EH-L05	BN07-00097A	EZ		LTM170E5-L05 Panel Code
SEC	LTA400W1-L01	BN07-00109A	S1		AMLCD 40" TV PANEL
SEC	LTM153W1-L01	BN07-00110A	S2		0.280/0.290 , 10000K & ZPD Panel
SEC	LTM150XH-L06	BN07-00111A	S3		0.280/0.290 , 10000K & ZPD Panel
SEC	LTM170W1-L01	BN07-00112A	S4		0.280/0.290 , 10000K & ZPD Panel
SEC	LTM170EH-L05	BN07-00113A	S5		0.280/0.290 , 10000K & ZPD Panel code
SEC	LTM220W1-L01	BN07-00114A	S6		AMLCD 22" TV ZPDpanel
SEC	LTM150XH-L06	BN07-00117A	S7		ZPD Panel code

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	CODE	Remarks
SEC	LTM153W1-L01	BN07-00118A	S8		ZPD code
SEC	LTM170WP-L01	BN07-00119A	S9		NIKE PVA PANEL
SEC	LTM213U4-L01	BN07-00039A	E1		21.3" NARROW
SEC	LTA260W1-L01	BN07-00121A	E2		VENUS
SEC	LTA220W1-L01	BN07-00074B	E3		22" TV PANEL B PANEL CODE
SEC	LTA320W1-L01	BN07-00108A	E4		AMLCD 32" TV PANE
SEC	LTM213U4-L01	BN07-00124A	E5		NARROW BEZEL 21 " PANEL
SEC	LTM170E6-L04	BN07-00129A	E6		HIGHLAND 17" LOW PANEL (TCO03 PANEL)
SEC	LTM190E1-L01	BN07-00088A	E7		LTM190E1-L01 ZPD panel
SEC	M150X4-L06	BN07-00137A	E8		15" Narrow & Slim panel
SEC	LTA170V1	BN07-00139A	E9		Muse 4:3 VGA TV 17" Panel
SEC	LTM190E1-L02	BN07-00128A	E10		AMLCD Panel . : 6bit Driver IC
SEC	LTM170EX-L01	BN07-00143A	E11		AMLCD Panel
SEC	LTM170E8-L01	BN07-00144A	E12		AMLCD Panel
SEC	LTM170E6-L04	BN07-00129B	E13		AMLCD ZPD panel (TCO03 PANEL)
SEC	LTA320W1-L02	BN07-00108B	E14		AMLCD 32" TV B panel code
SEC	LTM190E1-L03	BN07-00151A	E15		AMLCD 19" panel (TCO03 PANEL)
SEC	LTM240W1-L03	BN07-00134A	E16		AMLCD panel
SEC	LTM190E1-L02	BN07-00128B	E17		AMLCD Panel . : 6bit Driver IC(ZPD)
SEC	LTM190E4-L01	BN07-00145A	E18		AMLCD Panel
SEC	LTM170E8-L01	BN07-00158A	E19		ZPD code
SEC	LTM170EX-L01	BN07-00159A	E20		ZPD code
SEC	LTM190E1-L03	BN07-00151B	E21		AMLCD 19" ZPD panel code (TCO03 PANEL)
SEC	LTA460H1-L01	BN07-00157A	E22		AMLCD 46" TV panel code
SEC	LTM170EU-L11	BN07-00160A	E23		AMLCD 17" panel code (TCO03 PANEL)
SEC	LTM240W1-L03	BN07-00134B	E24		24" panel ZPD Code
CPT	CLAA150XG09	BN07-00141A	PA		CPT 15" Monitor panel
CPT	CLAA170EA02	BN07-00148A	PB		"17" CPT panel
CPT	CLAA170EA02	BN07-00148B	PC		17" CPT ZPD panel code
TOSHIBA	LTM15C419(A)	BN07-00002A	TA		
TOSHIBA	LTM15C423(B)	BN07-00006A	TB		
TOSHIBA	LTM18C161	BN07-00008A	TC		
TOSHIBA	LTM15C443	BN07-00031A	TD		
TOSHIBA	LTM15C458	BN07-00043A	TE		
TOSHIBA	LTM15C458S	BN07-00077A	TF		TSB 15" Panel
TOSHIBA	LTM15C458	BN07-00078A	TG		Toshiba ZPD panel
TOSHIBA	LTM15C458S	BN07-00099A	TH		TSB LTM15C458S (ZPD)
HANNSTAR	HSD150MX41A(A)	BN07-00020A	NA		TTL
HANNSTAR	HSD150MX12	BN07-00030A	NB		LVDS
TORISAN	TM150XG-22L03(A)	BN07-00021A	RA		
TORISAN	TM150XG-26L06	BN07-00042A	RB		
TORISAN	TM181SX-76N01	BN07-00048A	RC		
TORISAN	TM150XG-26L06	BN07-00059A	RD		15" XGA TN MODE(ZPD
TORISAN	TM290WX-71N31	BN07-00063A	RE		RS24NS (TORISAN 29" PANEL)
TORISAN	TM396WX-71N31	BN07-00064A	RF		RS24NS (TORISAN 40" PANEL)
TORISAN	TM150XG-26L09	BN07-00073A	RG		15" TV PANEL
TORISAN	TM150XG-26L10	BN07-00089A	RH		L10(D/IC) ZPD
TORISAN	TM150XG-26L10	BN07-00090A	RJ		L10 NORMAL
TORISAN	TM190SX-70N01	BN07-00098A	RK		Torisan 19" Panel
TORISAN	TM181SX-76N01	BN07-00106A	RL		ZPD Panel code
TORISAN	TM190SX-70N01	BN07-00107A	RM		ZPD Panel code
TORISAN	TM290WX-71N31	BN07-00115A	RN		Torisan 29" TV panel panel
TORISAN	TM396WX-71N31	BN07-00116A	"RP,Q"		Torisan 40" TV panel panel
TORISAN	TM220WX-71N31	BN07-00125A	RR		TORISAN 22" TV PANEL (ZPD)

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	CODE	Remarks
TORISAN	TM220WX-71N31	BN07-00127A	RS		TORISAN 22" TV PANEL (HPD)
TORISAN	TM396WX-71N32A	BN07-00150A	RT		120V inverter panel
SHARP	LQ181E1DG11(A)	BN07-10001C	PA		
SHARP	LQ150X1LW71	BN07-00067A	PB		SHARP 15" PVA PANEL
HITACHI	TX38D12VC0CAA(A)	BN07-00003A	HA		
HITACHI	TX43DVC0CAB	BN07-00060A	HB		17" SXGA PVA MODE
HITACHI	TX43D15VC0CAB	BN07-00101A	HC		ZPD Panel
HITACHI	TX51D11VC0CAB	BN07-00122A	HD		20.1" NARROW
HITACHI	TX54D11VC0CAB	BN07-00123A	HE		21.3" NARROW
IBM	ITSX94S	BN07-00017A	IA		
UNIPAC	UM170E0	BN07-00028A	UA		Loaded by cisdba
HYUNDAI	HT15X13	BN07-00035A	DA		
HYUNDAI	HT17E11-200	BN07-00049A	DB		TN MODE
HYUNDAI	HT17E11-300	BN07-00093A	DC		HT17E11-300 ZPD panel
HYUNDAI	HT17E11-400	BN07-00094A	DD		HT17E11-400 normal panel
HYUNDAI	HT17E11-400	BN07-00095A	DE		HT17E11-400 ZPD panel code
HYUNDAI	HT17E12	BN07-00096A	DF		HT17E12 (Narow & slim Design)
HYUNDAI	HT17E12	BN07-00105A	DG		ZPD Panel code
HYUNDAI	HT15X15-D00	BN07-00146A	DH		Ares 15" Hydis TV Panel
HYUNDAI	HT15X15-D01	BN07-00146B	DJ		Ares 15" Hydis TV Panel HPD
ACER	L170E3	BN07-00044A	AA		TN(ADT)
ACER	M170EN05	BN07-00076A	AB		AU 17" Panel (Narrow & slim design)
ACER	M170EN05	BN07-00102A	AC		ZPD Panel code
CHIMEI	M170E3-L01	BN07-00050A	CA		TN PANEL
CHIMEI	M150X3-L01	BN07-00051A	CB		COMPATIBLE
CHIMEI	M170E4-L01	BN07-00052A	CC		MVA PANEL
CHIMEI	M150X2-L01	BN07-00066A	CD		CHIME 15"I PVA PANEL
CHIMEI	M150X3-L01	BN07-00079A	CE		Chimei ZPD panel
CHIMEI	M170E3-L01	BN07-00103A	CF		ZPD Panel code
CHIMEI	M170E4-L01	BN07-00104A	CG		ZPD Panel code
CHIMEI	V296W1-L01	BN07-00120A	CH		MVA
CHIMEI	M170E6-L02	BN07-00126A	CJ		HIGHLAND 17" LOW PANEL
CHIMEI	M190E2-L01	BN07-00131A	CK		GH19AS,BS CHIMEI PANEL
CHIMEI	M150X4-L06	BN07-00137A	CL		15" Narrow & Slim panel
CHIMEI	M170E6-L01	BN07-00133A	CM		2003-03-11 (D)
CHIMEI	M170E6-L01	BN07-00133B	CN		ZPD panel
CHIMEI	V201V1-T01	BN07-00135A	CP		CHIMEI 20.1" panel
CHIMEI	M170E6-L02	BN07-00126B	CQ		HIGHLAND 17" LOW PANEL ZPD panel
CHIMEI	M170E6-L05	BN07-00152A	CR		CMO 17" panel code
CHIMEI	M170E6-L05	BN07-00152B	CS		CMO 17" ZPD panel code
CHIMEI	M150X4-L06	BN07-00137B	CT		Chimei 15" Narrow & Slim panel ZPD